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(NASA-CR-165457-Vol-2-Pt-2) AN EXPERIMENTAL INVESTIGATION OF GAPWISE PERIODICITY AND UNSTEADY AERODYNAMIC RESPONSE IN AN OSCILLATING CASCADE. VOLUME 2: DATA REPORT. PART (United Technologies Research G3/02 09159) N82-18181  
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AN EXPERIMENTAL INVESTIGATION OF GAPWISE  
PERIODICITY AND UNSTEADY AERODYNAMIC  
RESPONSE IN AN OSCILLATING CASCADE  
VOL. II: DATA REPORT

(Part 2: Mode 2 Data)

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AN EXPERIMENTAL INVESTIGATION OF GAPWISE  
PERIODICITY AND UNSTEADY AERODYNAMIC  
RESPONSE IN AN OSCILLATING CASCADE  
VOL. II: DATA REPORT

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TABLE 8

MODE 2 DATA FOR  $\alpha_{MCL} = 2 \text{ deg}$ ,  $\bar{\alpha} = 0.5 \text{ deg}$ 

<u><math>\sigma</math> (deg)</u>	<u>k</u>	<u>page</u>
-135	.0714	410
"	.1226	414
"	.1518	418
-90	.0719	422
"	.1220	426
"	.1519	430
-45	.0717	434
"	.1219	438
"	.1518	442
0	.0711	446
"	.1218	450
"	.1505	454
45	.0721	458
"	.1224	462
"	.1518	466
90	.0720	470
"	.1222	474
"	.1515	478
135	.0715	482
"	.1226	486
"	.1516	490
180	.0713	494
"	.1218	498
"	.1503	502

MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 71 ALPHA-MCL = 2.0 PUP RUN/PT 15.06  
 PUN 12 ALPHA-BAR = .5 D-COMP = .32616  
 POINT 12 SIGMA = -135. V-REF = 200.33  
 COMPUTED FREQUENCY = 9.13, K = .0719

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

XE:012  
 SUCTION

9

7

6

5

4

3

N	CPREAL	CPIMAG
1	5.739	23.702
2	.902	1.018
3	-.291	1.544
4	-.359	-.336
5	-.332	-.238
6	-.359	-.354
7	-.102	-.119
8	-.176	-.159
9	-.167	-.216
10	-.070	-.122

XE:012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	4.344	21.396	1	9.773	-15.190	1	17.833	5.874	1	16.332	9.925
2	.418	.355	2	-.012	1.089	2	-1.217	1.065	2	-.936	1.005
3	-1.868	-.083	3	-1.556	1.162	3	-1.558	-.262	3	-1.942	-.019
4	1.209	-.036	4	.174	-.080	4	-.328	-.094	4	.657	.208
5	-.510	-.232	5	.310	-.030	5	-.028	-.269	5	.248	-.019
6	-.174	-.028	6	-.342	-.021	6	-.065	-.125	6	.389	-.051
7	-.032	-.117	7	-.119	-.021	7	-.012	-.103	7	-.033	-.079
8	-.040	-.116	8	-.005	-.173	8	-.015	-.088	8	-.011	-.087
9	.040	.116	9	-.068	.146	9	-.032	.051	9	-.010	.087
10	.022	.022	10			10			10		

XE:030  
 SUCTION

N	CPREAL	CPIMAG
1	2.037	9.961
2	-1.335	1.029
3	.003	-.237
4	.003	-.312
5	-.097	-.020
6	-.116	-.068
7	-.076	-.051
8	-.051	-.051
9	-.051	-.051
10	-.051	-.051

```

71 ALPHA-MCL = 2.0      POP RUN-PT  15.06
15 ALPHA-BAR = .5       Q-COMP  = .32616
2  SIGMA = .135         W-REF  = 200.33
POINT COMPUTED FREQUENCY = 9.10,  V = .0714

```

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

[illegible]

\*\*\* WALL PRESSURE: PER RADIAN \*\*\*

WALL NO.  
GAP FRACTION

W3		W4		W5		W7		W8		W9	
N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL
1	10	1	7.747	1	4.652	1	2.401	1	2.037	1	2.539
2	20	2	6.609	2	2.551	2	4.600	2	3.940	2	3.834
3	30	3	2.281	3	2.048	3	4.169	3	3.003	3	2.709
4	40	4	0.911	4	1.072	4	3.710	4	2.394	4	1.808
5	50	5	0.281	5	0.372	5	3.270	5	1.703	5	1.197
6	60	6	0.095	6	0.045	6	2.856	6	1.369	6	0.803
7	70	7	0.043	7	0.017	7	2.481	7	1.065	7	0.571
8	80	8	0.015	8	0.006	8	2.152	8	0.827	8	0.402
9	90	9	0.004	9	0.001	9	1.864	9	0.657	9	0.270
10	100	10	0.001	10	0.000	10	1.618	10	0.570	10	0.192

OCWT PERIODICITY TEST  
 MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS  
 FILE 71 ALPHA-MCL = 2.0 PDP RUN-PT 15.06  
 PUN 15 ALPHA-BAR = 5.0 C-COMP = .32616  
 POINT 12 SIGMA = -135.5 V-REF = 200.33  
 COMPUTED FREQUENCY = 9.10,  $\kappa = .0714$   
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3  
 X=.005  
 SUCTION

N	CP-MAG	PHI
1	24.387	166.39
2	1.296	231.76
3	1.571	10.68
4	.540	276.26
5	.866	254.25
6	.511	134.56
7	.157	220.48
8	.237	137.86
9	.266	220.89
10	.141	119.97

X=.012  
 SUCTION

N	CP-MAG	PHI
1	17.102	160.89
2	1.634	312.55
3	1.153	168.71
4	.527	272.99
5	.413	23.43
6	.077	137.58
7	.167	188.56
8	.171	169.59
9	.135	51.41
10		

X=.030  
 SUCTION

N	CP-MAG	PHI
1	10.167	168.45
2	1.572	219.53
3	1.686	52.27
4	.787	341.67
5	.138	178.13
6	.088	178.13
7	.088	178.13
8	.088	178.13
9	.088	178.13
10	.088	178.13

9

7

6

5

N	CP-MAG	PHI
1	17.571	166.29
2	1.041	281.65
3	1.765	181.68
4	.836	154.93
5	.328	60.77
6	.180	50.90
7	.237	50.90
8	.113	50.90
9	.095	50.90
10		50.90

N	CP-MAG	PHI
1	18.775	161.73
2	1.887	164.09
3	1.779	140.63
4	.099	140.63
5	.379	106.73
6	.159	138.12
7	.125	138.12
8	.174	210.40
9	.060	58.16
10		

N	CP-MAG	PHI
1	18.062	167.76
2	1.639	181.08
3	1.763	100.01
4	.085	167.72
5	.330	114.23
6	.051	242.84
7	.121	350.27
8	.173	189.98
9	.161	133.31
10		204.96

X=.012  
 SUCTION

N	CP-MAG	PHI
1	17.571	166.29
2	1.041	281.65
3	1.765	181.68
4	.836	154.93
5	.328	60.77
6	.180	50.90
7	.237	50.90
8	.113	50.90
9	.095	50.90
10		50.90

```

71 ALPHA-MCL = 2.0      PUP RUN-PT 15.06
15 ALPHA-BAR = .5      Q-COMP = 32619
20 SIGH = -135.        V-REF = 200.13
    COMPUTED FREQUENCY = 9.10, K = .0714
    UNBIASED PHASE ANGLE
LITLUT *****
LITLUT *****

```

FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN

SLADE NO.

X-062  
SUCYION

5



12

1

X-012  
PRESURE

PHI

**PHI**

**PHI**

**PHI**

**PHI**

THE  
BOOK

S, 232 R

WALL NO.  
GAP FRACTION

MN

၁၈၈

LAND  
TRACTION

413

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 74 ALPHA-MCL = 2.0 POP RUN.PT 15.08  
PUN 15 ALPHA-BAR = 13.5 O-COMP = .32337  
POINT 5 SIGMA = -135. V-REF = 199.46  
COMPUTED FREQUENCY = 15.57, M = .1226

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE=005  
SUCTION

N CPREAL CPIMAG  
1 6.361 22.765  
2 1.746 1.295  
3 1.053 1.058  
4 -.132 .191  
5 -.698 .166  
6 -.138 .150  
7 -.052 -.255  
8 .027 .134  
9 .027 .089  
10 -.048 -.061

XE=012  
SUCTION

N CPREAL CPIMAG  
1 4.238 19.084  
2 -.162 .492  
3 -.195 .061  
4 .527 .198  
5 .440 .150  
6 .174 .067  
7 -.015 .094  
8 -.067 .009  
9 -.064 .021  
10 -.062 .002

XE=030  
SUCTION

N CPREAL CPIMAG  
1 1.556 8.760  
2 -.107 .449  
3 -.186 .189  
4 .064 .233  
5 .002 .010  
6 -.082 -.043  
7 -.093 -.042  
8 .010 .011  
9 -.036 .019  
10

9

7

6

5

N CPREAL CPIMAG  
1 15.997 8.607  
2 .361 .286  
3 .361 .286  
4 .003 .191  
5 .002 .150  
6 .062 .100  
7 .127 .218  
8 .012 .086  
9 .079 .059  
10 .095 .159

N CPREAL CPIMAG  
1 5.365 5.365  
2 .517 .517  
3 .201 .201  
4 .087 .087  
5 .064 .064  
6 .017 .017  
7 .053 .053  
8 .014 .014  
9 .033 .033  
10

N CPREAL CPIMAG  
1 18.190 18.190  
2 -.126 -.126  
3 .095 .095  
4 .064 .064  
5 .141 .141  
6 .060 .060  
7 .134 .134  
8 .060 .060  
9 .134 .134  
10

N CPREAL CPIMAG  
1 8.723-16.399  
2 .153 .731  
3 .027 .265  
4 .080 .145  
5 .086 .053  
6 .092 .078  
7 .039 .083  
8 .047 .009  
9 .012 .031  
10

N CPREAL CPIMAG  
1 8.607 8.607  
2 .286 .286  
3 .191 .191  
4 .150 .150  
5 .100 .100  
6 .218 .218  
7 .086 .086  
8 .059 .059  
9 .159 .159  
10

N CPREAL CPIMAG  
1 14.857 14.857  
2 .917 .917  
3 .162 .162  
4 .094 .094  
5 .037 .037  
6 .028 .028  
7 .013 .013  
8 .078 .078  
9 .013 .013  
10

```

74  ALPHA-MCL = 2.0      POP RUN.PI 15.08
15  ALPHA-BAR = .5       U-COMP = .7217
5   SIGMA = -135.        V-REF = 199.46
                                COMPUTED FREQUENCY = 15.57, K = .1226
                                POINT

```

FOUPIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

NOT A  
SUCKION  
X=0662

[illegible]

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.  
GAP FRACTION

	$\lambda_1$	$\lambda_2$	$\lambda_3$	$\lambda_4$	$\lambda_5$	$\lambda_6$	$\lambda_7$	$\lambda_8$	$\lambda_9$
1	10	876	062	125	250	750	875	938	
2	10	578		125	250	750	875	938	
3	10	578		125	250	750	875	938	
4	10	578		125	250	750	875	938	
5	10	578		125	250	750	875	938	
6	10	578		125	250	750	875	938	
7	10	578		125	250	750	875	938	
8	10	578		125	250	750	875	938	
9	10	578		125	250	750	875	938	
10	10	578		125	250	750	875	938	

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 74 ALPHA-MCL = 2.0 PDP RUN PT 15.08  
 RUN 15 ALPHA-GRK = 5.5 C-CP-PT = 32337  
 POINT SIGMA = -135. V-REF = 199.46  
 COMPUTED FREQUENCY = 15.57, K = .1226

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

XE=0.05  
 SUCTION

9

7

6

5

3

N	CP-MAG	PHI
1	23.637	164.39
2	1.499	240.04
3	1.493	315.14
4	.232	124.59
5	.716	256.59
6	.204	47.35
7	.263	198.36
8	.136	174.50
9	.093	163.04
10	.078	51.87

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	15.164	160.91	1	19.549	167.48	1	18.574	163.01	1	18.165	163.57	1	17.338	165.03			
2	.709	326.90	2	.911	306.30	2	.745	191.06	2	.361	103.64	2	.358	175.78			
3	.406	194.92	3	.798	94.39	3	.265	50.35	3	.571	120.28	3	.322	175.33			
4	.277	240.77	4	.562	20.59	4	.157	247.30	4	.191	170.87	4	.185	280.07			
5	.242	319.39	5	.465	71.16	5	.101	256.37	5	.050	126.10	5	.163	255.66			
6	.054	177.77	6	.186	338.93	6	.121	130.36	6	.110	133.91	6	.141	75.88			
7	.064	98.55	7	.217	64.33	7	.102	9.63	7	.253	128.11	7	.104	150.01			
8	.076	143.95	8	.067	149.94	8	.040	347.08	8	.047	138.46	8	.088	238.14			
9	.108	155.73	9	.067	267.04	9	.051	245.54	9	.117	267.62	9	.080	238.14			
10	.362	26.55	10	.067	541.41	10	.033	152.53	10	.112	121.97	10	.148	302.59			

XE=0.00  
 SUCTION

N	CP-MAG	PHI
1	8.898	169.91
2	.462	283.45
3	.265	44.40
4	.210	72.47
5	.035	176.37
6	.084	13.36
7	.102	114.91
8	.043	175.94
9	.016	225.99
10	.034	220.93



# MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 74 ALPHA-MCL = 2.0 PGP RUN PT 15.08  
 RUN 15 ALPHA-BAR = 3.237 C-COMP = 3237  
 POINT 5 SIGMA = -135. V-REF = 199.46  
 COMPUTED FREQUENCY = 15.57, K = .1226  
 C UNBIASED PHASE ANGLE

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9									
X=062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI			
1	8	.593	164.27	1	7.796	166.61	1	9.655	166.25	1	8	.034	170.17		
2	7	.719	152.34	2	.622	181.08	2	.632	193.96	2	3	.379	171.68		
3	6	.183	237.60	3	.238	153.07	3	.216	107.50	3	4	.327	165.88		
4	5	.066	326.95	4	.033	134.65	4	.089	99.21	4	5	.108	322.54		
5	6	.047	260.44	5	.095	135.33	5	.096	167.08	5	6	.073	98.90		
6	7	.021	140.42	6	.025	1.40	6	.038	192.78	6	7	.016	328.46		
7	8	.069	165.30	7	.020	5.82	7	.035	131.19	7	8	.076	260.11		
8	9	.061	199.30	8	.025	266.80	8	.102	150.54	8	9	.107	121.47		
9	10	.061	53.59	9	.025	282.95	9	.102	205.47	9	10	.126	312.30		
X=012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI			
1	14	.914	341.47	1	14	.713	344.38	1	15	.843	342.27	1	14	.908	330.37
2	13	.659	347.60	2	.966	207.39	2	.152	158.32	2	13	.431	353.30		
3	12	.439	235.97	3	.166	54.63	3	.137	77.08	3	12	.318	170.91		
4	11	.422	157.55	4	.222	112.38	4	.107	85.38	4	11	.192	309.65		
5	10	.211	330.00	5	.092	353.65	5	.152	268.17	5	10	.045	331.02		
6	9	.088	19.72	6	.028	122.96	6	.069	331.67	6	9	.052	137.13		
7	8	.022	345.25	7	.102	301.02	7	.044	302.81	7	8	.090	155.11		
8	7	.022	345.25	8	.102	301.02	8	.044	302.81	8	7	.090	155.11		
9	6	.022	345.25	9	.102	301.02	9	.044	302.81	9	6	.090	155.11		
10	5	.022	345.25	10	.102	301.02	10	.044	302.81	10	5	.090	155.11		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W9 .938										
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	
1	11	.389	162.74	1	.051	167.41	1	.939	174.92	1	3	.418	170.79	1	0.65
2	10	.579	182.25	2	.365	120.92	2	.724	98.36	2	3	.820	103.68	2	0.55
3	9	.271	119.73	3	.158	64.54	3	.291	80.27	3	4	.270	89.16	3	0.51
4	8	.176	119.50	4	.120	117.57	4	.178	114.97	4	5	.309	89.27	4	0.54
5	7	.140	119.50	5	.103	165.96	5	.092	217.15	5	6	.104	111.56	5	0.52
6	6	.162	209.81	6	.165	206.96	6	.120	217.15	6	7	.111	220.27	6	0.50
7	5	.092	170.22	7	.090	160.16	7	.017	128.66	7	8	.022	129.07	7	0.53
8	4	.092	170.22	8	.090	160.16	8	.017	128.66	8	9	.022	129.07	8	0.53
9	3	.132	220.78	9	.131	216.13	9	.124	120.80	9	10	.031	129.07	9	0.50
10	2	.132	220.78	10	.131	216.13	10	.124	120.80	10	10	.031	129.07	10	0.50

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 76 ALPHA-MCL = 2.0 PUP PUN.PI 15.10  
 PUN 15 ALPHA-BAR = 135. C-COMP = .32214  
 POINT 17 SIGMA = -135. V-REF = 197.07  
 COMPUTED FREQUENCY = 19.24, K = .1519

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE:005  
 SUCTION

N CPREAL CPIMAG  
 1 7.310 22.649  
 2 1.784 1.098  
 3 1.133 1.219  
 4 -1.740 1.115  
 5 -1.422 1.131  
 6 .048 1.337  
 7 .037 1.341  
 8 .056 1.238  
 9 .097 1.017  
 10 -.060 -.036

XE:012  
 SUCTION

N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG  
 1 -10.106 -7.983 1 5.161 19.854 1 9.164 -17.544 1 -17.842 5.401 1 16.670 8.287 1 -8.849 14.954  
 2 1.752 .514 2 1.524 .475 2 1.257 .398 2 1.224 .354 2 .540 .470 2 .470 .345 2 .470 .345  
 3 .121 .159 3 .758 .718 3 .331 .225 3 .354 .221 3 .190 .206 3 .215 .182 3 .215 .182  
 4 .152 .159 4 .279 .090 4 .000 .017 4 .163 .078 4 .008 .110 4 .008 .110  
 5 .052 .128 5 .208 .063 5 .067 .047 5 .015 .015 5 .055 .008 5 .009 .009  
 6 .128 .163 6 .057 .057 6 .047 .047 6 .019 .019 6 .001 .001 6 .001 .001  
 7 .163 .163 7 .067 .067 7 .047 .047 7 .019 .019 7 .001 .001 7 .001 .001  
 8 .163 .163 8 .067 .067 8 .047 .047 8 .019 .019 8 .001 .001 8 .001 .001  
 9 .163 .163 9 .067 .067 9 .047 .047 9 .019 .019 9 .001 .001 9 .001 .001  
 10 .163 .163 10 .067 .067 10 .047 .047 10 .019 .019 10 .001 .001 10 .001 .001

XE:020  
 SUCTION

N CPREAL CPIMAG  
 1 2.089 6.464  
 2 .013 .591  
 3 .445 .065  
 4 .087 .111  
 5 .057 .056  
 6 .025 .075  
 7 .010 .016  
 8 .007 .004  
 9 .031 .000  
 10 -.021 -.314

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 76 ALPHA-MCL = 2.0 POP RUN.PI 15.10  
 RUN 19 ALPHA-BAR = 322.14  
 POINT 17 SIGMA = 135.0  
 COMPUTED FREQUENCY = 19.24, K = .1518

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
XE:062 SUCTION	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG
1	-7.173	-4.847	1.217	6.884	1.217	6.884
2	.446	.950	.385	.835	.385	.835
3	-.164	-.172	-.076	-.159	-.076	-.159
4	-.166	-.054	-.033	-.084	-.033	-.084
5	.050	-.029	-.038	-.084	-.038	-.084
6	.124	-.125	.002	.002	.002	.002
7	-.104	-.055	.004	.004	.004	.004
8	-.093	-.170	.002	.002	.002	.002
9	-.106	.087	-.028	-.019	-.028	-.019
10						
XE:012 PRESSURE	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG
1	13.578	5.493	-6.802	12.384	-7.630	1.540
2	.199	.928	.266	1.622	.694	.822
3	.405	.373	.654	1.115	-.009	.103
4	.165	.374	.015	-.200	-.217	.116
5	.041	.110	.074	-.074	-.059	-.015
6	.142	.002	.006	-.074	.005	.016
7	.021	.055	.047	.031	.002	.000
8	.104	.067	.045	.017	.032	.003
9	-.073	-.045	.001	.021	-.017	.013
10			.002	-.000	.022	.053
	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG
1	13.578	5.493	-6.802	12.384	-7.630	1.540
2	.199	.928	.266	1.622	.694	.822
3	.405	.373	.654	1.115	-.009	.103
4	.165	.374	.015	-.200	-.217	.116
5	.041	.110	.074	-.074	.005	.016
6	.142	.002	.006	-.074	.002	.000
7	.021	.055	.047	.031	.032	.003
8	.104	.067	.045	.017	-.017	.013
9	-.073	-.045	.001	.021	.022	.053
10			.002	-.000		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO:	W3	W4	W5	W7	W8	W9
GAP FRACTION	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG
1	-10.519	2.944	-5.087	1.267	-2.602	-2.715
2	-.302	.385	.267	1.159	.001	.018
3	.592	.169	.637	.070	.679	.646
4	.157	-.165	.127	-.208	.192	.135
5	-.037	.037	.084	-.007	-.039	-.096
6	.010	-.029	.039	.071	.018	.021
7	-.008	.021	.021	.041	.009	.039
8	-.033	.008	.072	.035	.015	.071
9			.017	.061	.071	.081
10				.000	.005	.002
	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG
1	-10.519	2.944	-5.087	1.267	-2.602	-2.715
2	-.302	.385	.267	1.159	.001	.018
3	.592	.169	.637	.070	.679	.646
4	.157	-.165	.127	-.208	.192	.135
5	-.037	.037	.084	-.007	-.039	-.096
6	.010	-.029	.039	.071	.018	.021
7	-.008	.021	.021	.041	.009	.039
8	-.033	.008	.072	.035	.015	.071
9			.017	.061	.071	.081
10				.000	.005	.002

MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 76 ALPHA-MCL = 2.0 POP RUN.PT 15.10  
 PUN 15 ALPHA-BAP = .5 Q-COMP = .32214  
 PGINT 17 SIGMA = -135. V-REF = .199.C7  
 FOURIER COEFFICIENTS, AMPLITUDE COMPUTED FREQUENCY = 19.24, K = .1518  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

X=.005  
 SUCTION

N	CP-MAG	PHI
1	23.799	162.11
2	1.350	234.47
3	1.154	280.95
4	.749	171.15
5	.441	252.79
6	.310	98.91
7	.056	222.41
8	.244	276.72
9	.099	99.81
10	.104	55.14

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	17.886	161.51	1	19.793	162.58	1	18.641	163.16	1	17.176	164.46
2	.935	386.49	2	.473	147.17	2	.585	67.48	2	1.039	201.32
3	1.033	187.19	3	.361	311.21	3	.403	67.28	3	.514	201.86
4	.121	282.15	4	.222	84.72	4	.163	157.14	4	.219	167.91
5	.292	54.17	5	.019	134.72	5	.096	142.69	5	.149	129.06
6	.067	54.17	6	.033	125.53	6	.022	225.70	6	.052	86.39
7	.190	230.15	7	.102	219.33	7	.014	177.80	7	.042	298.82
8	.040	230.15	8	.030	171.47	8	.034	225.70	8	.042	298.82
9	.176	158.30	9	.014	293.83	9	.034	225.70	9	.042	298.82
10	.109	310.21	10	.005	293.83	10	.038	225.70	10	.042	298.82

X=.030  
 SUCTION

N	CP-MAG	PHI
1	8.718	166.14
2	.591	271.23
3	.450	226.17
4	.147	272.46
5	.057	275.67
6	.023	70.69
7	.044	43.92
8	.033	86.21
9	.033	90.80
10	.025	32.91

# OC-1 PERIODICITY TEST MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 76 ALPHA-MCL = 2.0 PUP RUN-PT 15.10  
PUN 15 ALPHA-BAR = .5 G-CUM-PT 13214  
POINT 7 ALPHA SIGMA = -135. V-REF = 199.07  
COMPUTED FREQUENCY = 19.24, K = .1518  
UNBIASED PHASE ANGLE

FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9													
X=.062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	
1	8	.958	169.05	1	8	.866	165.52	1	8	.116	169.06	1	8	.204	163.94	1	7	.381	169.82
2	1	.889	334.87	2	2	.750	157.75	2	2	.851	174.91	2	2	.677	352.57	2	2	.827	190.74
3	1	.850	210.24	3	3	.518	314.05	3	3	.468	12.68	3	3	.404	109.60	3	3	.600	131.60
4	2	.238	46.48	4	4	.217	187.42	4	4	.061	305.49	4	4	.165	109.60	4	4	.129	169.29
5	2	.175	297.15	5	5	.042	216.89	5	5	.017	165.42	5	5	.055	265.44	5	5	.025	359.19
6	2	.058	59.96	6	6	.064	208.65	6	6	.016	168.94	6	6	.055	119.82	6	6	.057	22.58
7	2	.068	87.90	7	7	.033	178.06	7	7	.022	180.41	7	7	.060	232.07	7	7	.018	22.58
8	2	.073	236.90	8	8	.017	208.42	8	8	.029	217.66	8	8	.055	345.45	8	8	.012	212.50
9	2	.194	196.17	9	9	.007	349.94	9	9	.029	339.01	9	9	.055	345.45	9	9	.012	212.50
10	2	.137	309.52	10	10	.007	349.94	10	10	.029	339.01	10	10	.055	345.45	10	10	.012	212.50
X=.012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	
1	14	.647	537.03	1	14	.129	343.78	1	16	.663	337.85	1	14	.387	333.84	1	16	.145	341.96
2	9	.949	347.90	2	2	1.664	189.37	2	2	.752	334.89	2	2	1.949	351.40	2	2	.553	181.88
3	2	.550	267.70	3	3	.201	94.15	3	3	.308	334.89	3	3	1.395	81.93	3	3	.553	181.88
4	2	.377	114.52	4	4	.074	227.75	4	4	.059	140.07	4	4	.225	86.91	4	4	.059	158.01
5	2	.177	339.77	5	5	.057	175.35	5	5	.072	318.87	5	5	.164	154.11	5	5	.059	158.01
6	2	.142	225.61	6	6	.046	281.51	6	6	.065	165.20	6	6	.095	282.83	6	6	.059	158.01
7	2	.059	111.03	7	7	.021	159.30	7	7	.017	329.59	7	7	.068	162.78	7	7	.059	158.01
8	2	.124	347.65	8	8	.021	138.30	8	8	.017	329.59	8	8	.068	162.78	8	8	.059	158.01
9	2	.086	121.34	9	9	.002	83.09	9	9	.049	191.86	9	9	.015	96.96	9	9	.059	158.01
10	2	.086	121.34	10	10	.002	83.09	10	10	.049	191.86	10	10	.015	96.96	10	10	.059	158.01

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	3	4	5	7	9										
GAP FRACTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI			
1	10	.923	164.37	1	5	.094	176.99	1	3	.261	195.66	1	2	.869	202.95
2	2	.489	124.12	2	1	1.189	177.02	2	1	.251	183.59	2	1	1.233	89.94
3	2	.616	15.56	3	2	.244	6.34	3	2	.216	31.48	3	2	.220	7.07
4	2	.224	312.26	4	3	.084	301.43	4	3	.097	291.99	4	3	.094	311.10
5	2	.098	147.42	5	3	.081	298.79	5	3	.045	335.53	5	3	.040	162.84
6	2	.082	111.04	6	3	.070	172.11	6	3	.061	59.67	6	3	.068	77.85
7	2	.034	167.30	7	8	.072	172.11	7	8	.064	199.08	7	8	.071	187.09
8	2	.034	167.30	8	9	.021	100.96	8	9	.027	252.08	8	9	.008	132.00
9	2	.034	167.30	9	10	.016	100.96	9	10	.027	252.08	9	10	.008	132.00
10	2	.034	167.30	10	10	.016	100.96	10	10	.027	252.08	10	10	.008	132.00

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS  
 ACWT PERIODICITY TEST  
 FILE 65 ALPHA-MCL = 2.0 PDP PUN.PT 14.02  
 PUN 14 ALPHA-BAR = .5 O-COMP = .32513  
 POINT 2 SIGMA = -90. V-REF = 199.97  
 FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
 COMPUTED FREQUENCY = 9.16, W = .019

BLADE NO.

X=C005  
 SUCTION

9

7

6

5

4

3

N CPREAL CPIMAG  
 1 17.354 -7.868  
 2 -1.247 -1.179  
 3 -.2719 1.342  
 4 -.2718 1.369  
 5 .3522 .307  
 6 .175 .459  
 7 .377 .215  
 8 .261 .241  
 9 .304 .033  
 10 .071 .011

X=C012  
 SUCTION

N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG  
 1 5.721 13.921 1 16.200 -6.651 1 -8.001 -14.588 1 -16.137 7.251 1 6.445 14.078 1 -7.222 -13.307  
 2 .114 .125 2 .469 .078 2 .057 .081 2 .074 .400 2 .171 .107 2 .237 .201  
 3 .758 .636 3 .856 .622 3 .121 .119 3 .829 .480 3 .517 .716 3 .745 .694  
 4 .246 .100 4 .459 .135 4 .015 .043 4 .100 .642 4 .217 .105 4 .207 .105  
 5 .368 .066 5 .117 .182 5 .327 .173 5 .092 .121 5 .209 .121 5 .158 .121  
 6 .077 .177 6 .125 .125 6 .327 .173 6 .263 .030 6 .251 .030 6 .121 .030  
 7 .071 .177 7 .125 .125 7 .327 .173 7 .263 .030 7 .251 .030 7 .121 .030  
 8 .041 .177 8 .125 .125 8 .327 .173 8 .263 .030 8 .251 .030 8 .121 .030  
 9 .041 .177 9 .125 .125 9 .327 .173 9 .263 .030 9 .251 .030 9 .121 .030  
 10 .041 .177 10 .125 .125 10 .327 .173 10 .263 .030 10 .251 .030 10 .121 .030

X=C030  
 SUCTION

N CPREAL CPIMAG  
 1 6.002 -2.000  
 2 .032 .221  
 3 .820 .222  
 4 .101 .855  
 5 .047 .052  
 6 .162 .076  
 7 .286 .138  
 8 .093 .138  
 9 .037 .054  
 10 .001 .084

# MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 85 ALPHA-MCL = 2.0 PCP RUN-PI 14.02  
 POINT 12 ALPHA-SAR = -90.0 C-TEMP = 125.13  
 COMPTED FREQUENCY = 9.16, W = .0719 V-REF = 195.97

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9						
SECTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	0.039	7.333	1	4.980	-1.128	1	3.233	-6.198	1	1.315	7.172
2	2	-1.010	-2.216	2	-1.121	-1.128	2	-1.116	-1.121	2	-1.118	-1.118
3	3	-1.010	-2.216	3	-1.004	-1.128	3	-1.095	-1.121	3	-1.095	-1.118
4	4	-1.010	-2.216	4	-0.051	-1.128	4	-0.051	-1.121	4	-0.051	-1.118
5	5	-1.010	-2.216	5	-0.051	-1.128	5	-0.051	-1.121	5	-0.051	-1.118
6	6	-1.010	-2.216	6	-0.051	-1.128	6	-0.051	-1.121	6	-0.051	-1.118
7	7	-1.010	-2.216	7	-0.051	-1.128	7	-0.051	-1.121	7	-0.051	-1.118
8	8	-1.010	-2.216	8	-0.051	-1.128	8	-0.051	-1.121	8	-0.051	-1.118
9	9	-1.010	-2.216	9	-0.051	-1.128	9	-0.051	-1.121	9	-0.051	-1.118
10	10	-1.010	-2.216	10	-0.051	-1.128	10	-0.051	-1.121	10	-0.051	-1.118
11	11	-1.010	-2.216	11	-0.051	-1.128	11	-0.051	-1.121	11	-0.051	-1.118
12	12	-1.010	-2.216	12	-0.051	-1.128	12	-0.051	-1.121	12	-0.051	-1.118
13	13	-1.010	-2.216	13	-0.051	-1.128	13	-0.051	-1.121	13	-0.051	-1.118
14	14	-1.010	-2.216	14	-0.051	-1.128	14	-0.051	-1.121	14	-0.051	-1.118
15	15	-1.010	-2.216	15	-0.051	-1.128	15	-0.051	-1.121	15	-0.051	-1.118
16	16	-1.010	-2.216	16	-0.051	-1.128	16	-0.051	-1.121	16	-0.051	-1.118
17	17	-1.010	-2.216	17	-0.051	-1.128	17	-0.051	-1.121	17	-0.051	-1.118
18	18	-1.010	-2.216	18	-0.051	-1.128	18	-0.051	-1.121	18	-0.051	-1.118
19	19	-1.010	-2.216	19	-0.051	-1.128	19	-0.051	-1.121	19	-0.051	-1.118
20	20	-1.010	-2.216	20	-0.051	-1.128	20	-0.051	-1.121	20	-0.051	-1.118
21	21	-1.010	-2.216	21	-0.051	-1.128	21	-0.051	-1.121	21	-0.051	-1.118
22	22	-1.010	-2.216	22	-0.051	-1.128	22	-0.051	-1.121	22	-0.051	-1.118
23	23	-1.010	-2.216	23	-0.051	-1.128	23	-0.051	-1.121	23	-0.051	-1.118
24	24	-1.010	-2.216	24	-0.051	-1.128	24	-0.051	-1.121	24	-0.051	-1.118
25	25	-1.010	-2.216	25	-0.051	-1.128	25	-0.051	-1.121	25	-0.051	-1.118
26	26	-1.010	-2.216	26	-0.051	-1.128	26	-0.051	-1.121	26	-0.051	-1.118
27	27	-1.010	-2.216	27	-0.051	-1.128	27	-0.051	-1.121	27	-0.051	-1.118
28	28	-1.010	-2.216	28	-0.051	-1.128	28	-0.051	-1.121	28	-0.051	-1.118
29	29	-1.010	-2.216	29	-0.051	-1.128	29	-0.051	-1.121	29	-0.051	-1.118
30	30	-1.010	-2.216	30	-0.051	-1.128	30	-0.051	-1.121	30	-0.051	-1.118
31	31	-1.010	-2.216	31	-0.051	-1.128	31	-0.051	-1.121	31	-0.051	-1.118
32	32	-1.010	-2.216	32	-0.051	-1.128	32	-0.051	-1.121	32	-0.051	-1.118
33	33	-1.010	-2.216	33	-0.051	-1.128	33	-0.051	-1.121	33	-0.051	-1.118
34	34	-1.010	-2.216	34	-0.051	-1.128	34	-0.051	-1.121	34	-0.051	-1.118
35	35	-1.010	-2.216	35	-0.051	-1.128	35	-0.051	-1.121	35	-0.051	-1.118
36	36	-1.010	-2.216	36	-0.051	-1.128	36	-0.051	-1.121	36	-0.051	-1.118
37	37	-1.010	-2.216	37	-0.051	-1.128	37	-0.051	-1.121	37	-0.051	-1.118
38	38	-1.010	-2.216	38	-0.051	-1.128	38	-0.051	-1.121	38	-0.051	-1.118
39	39	-1.010	-2.216	39	-0.051	-1.128	39	-0.051	-1.121	39	-0.051	-1.118
40	40	-1.010	-2.216	40	-0.051	-1.128	40	-0.051	-1.121	40	-0.051	-1.118
41	41	-1.010	-2.216	41	-0.051	-1.128	41	-0.051	-1.121	41	-0.051	-1.118
42	42	-1.010	-2.216	42	-0.051	-1.128	42	-0.051	-1.121	42	-0.051	-1.118
43	43	-1.010	-2.216	43	-0.051	-1.128	43	-0.051	-1.121	43	-0.051	-1.118
44	44	-1.010	-2.216	44	-0.051	-1.128	44	-0.051	-1.121	44	-0.051	-1.118
45	45	-1.010	-2.216	45	-0.051	-1.128	45	-0.051	-1.121	45	-0.051	-1.118
46	46	-1.010	-2.216	46	-0.051	-1.128	46	-0.051	-1.121	46	-0.051	-1.118
47	47	-1.010	-2.216	47	-0.051	-1.128	47	-0.051	-1.121	47	-0.051	-1.118
48	48	-1.010	-2.216	48	-0.051	-1.128	48	-0.051	-1.121	48	-0.051	-1.118
49	49	-1.010	-2.216	49	-0.051	-1.128	49	-0.051	-1.121	49	-0.051	-1.118
50	50	-1.010	-2.216	50	-0.051	-1.128	50	-0.051	-1.121	50	-0.051	-1.118
51	51	-1.010	-2.216	51	-0.051	-1.128	51	-0.051	-1.121	51	-0.051	-1.118
52	52	-1.010	-2.216	52	-0.051	-1.128	52	-0.051	-1.121	52	-0.051	-1.118
53	53	-1.010	-2.216	53	-0.051	-1.128	53	-0.051	-1.121	53	-0.051	-1.118
54	54	-1.010	-2.216	54	-0.051	-1.128	54	-0.051	-1.121	54	-0.051	-1.118
55	55	-1.010	-2.216	55	-0.051	-1.128	55	-0.051	-1.121	55	-0.051	-1.118
56	56	-1.010	-2.216	56	-0.051	-1.128	56	-0.051	-1.121	56	-0.051	-1.118
57	57	-1.010	-2.216	57	-0.051	-1.128	57	-0.051	-1.121	57	-0.051	-1.118
58	58	-1.010	-2.216	58	-0.051	-1.128	58	-0.051	-1.121	58	-0.051	-1.118
59	59	-1.010	-2.216	59	-0.051	-1.128	59	-0.051	-1.121	59	-0.051	-1.118
60	60	-1.010	-2.216	60	-0.051	-1.128	60	-0.051	-1.121	60	-0.051	-1.118
61	61	-1.010	-2.216	61	-0.051	-1.128	61	-0.051	-1.121	61	-0.051	-1.118
62	62	-1.010	-2.216	62	-0.051	-1.128	62	-0.051	-1.121	62	-0.051	-1.118
63	63	-1.010	-2.216	63	-0.051	-1.128	63	-0.051	-1.121	63	-0.051	-1.118
64	64	-1.010	-2.216	64	-0.051	-1.128	64	-0.051	-1.121	64	-0.051	-1.118
65	65	-1.010	-2.216	65	-0.051	-1.128	65	-0.051	-1.121	65	-0.051	-1.118
66	66	-1.010	-2.216	66	-0.051	-1.128	66	-0.051	-1.121	66	-0.051	-1.118
67	67	-1.010	-2.216	67	-0.051	-1.128	67	-0.051	-1.121	67	-0.051	-1.118
68	68	-1.010	-2.216	68	-0.051	-1.128	68	-0.051	-1.121	68	-0.051	-1.118
69	69	-1.010	-2.216	69	-0.051	-1.128	69	-0.051	-1.121	69	-0.051	-1.118
70	70	-1.010	-2.216	70	-0.051	-1.128	70	-0.051	-1.121	70	-0.051	-1.118
71	71	-1.010	-2.216	71	-0.051	-1.128	71	-0.051	-1.121	71	-0.051	-1.118
72	72	-1.010	-2.216	72	-0.051	-1.128	72	-0.051	-1.121	72	-0.051	-1.118
73	73	-1.010	-2.216	73	-0.051	-1.128	73	-0.051	-1.121	73	-0.051	-1.118
74	74	-1.010	-2.216	74	-0.051	-1.128	74	-0.051	-1.121	74	-0.051	-1.118
75	75	-1.010	-2.216	75	-0.051	-1.128	75	-0.051	-1.121	75	-0.051	-1.118
76	76	-1.010	-2.216	76	-0.051	-1.128	76	-0.051	-1.121	76	-0.051	-1.118
77	77	-1.010	-2.216	77	-0.051	-1.128	77	-0.051	-1.121	77	-0.051	-1.118
78	78	-1.010	-2.216	78	-0.051	-1.128	78	-0.051	-1.121	78	-0.051	-1.118
79	79	-1.010	-2.216	79	-0.051	-1.128	79	-0.051	-1.121	79	-0.051	-1.118
80	80	-1.010	-2.216	80	-0.051	-1.128	80	-0.051	-1.121	80	-0.051	-1.118
81	81	-1.010	-2.216	81	-0.051	-1.128	81	-0.051	-1.121	81	-0.051	-1.118
82	82	-1.010	-2.216	82	-0.051	-1.128	82	-0.051	-1.121	82	-0.051	-1.118
83	83	-1.010	-2.216	83	-0.051	-1.128	83	-0.051	-1.121	83	-0.051	-1.118
84	84	-1.010	-2.216	84	-0.051	-1.128	84	-0.051	-1.121	84	-0.051	-1.118
85	85	-1.010	-2.216	85	-0.051	-1.128	85	-0.051	-1.121	85	-0.051	-1.118
86	86	-1.010	-2.216	86	-0.051	-1.128	86	-0.051	-1.121	86	-0.051	-1.118
87	87	-1.010	-2.216	87	-0.051	-1.128	87	-0.051	-1.121	87	-0.051	-1.118
88	88	-1.010	-2.216	88	-0.051	-1.128	88	-0.051	-1.121	88	-0.051	-1.118
89	89	-1.010	-2.216	89	-0.051	-1.128	89	-0.051	-1.121	89	-0.051	-1.118
90	90	-1.010	-2.216	90	-0.051	-1.128	90	-0.051	-1.121	90	-0.051	-1.118
91	91	-1.010	-2.216	91	-0.051	-1.128	91	-0.051	-1.121	91	-0.051	-1.118
92	92	-1.010	-2.216	92	-0.051	-1.128	92	-0.051	-1.121	92	-0.051	-1.118
93	93	-1.010	-2.216	93	-0.051	-1.128	93	-0.051	-1.121	93	-0.051	-1.118
94	94	-1.010	-2.216	94	-0.051	-1.128	94	-0.051	-1.121	94	-0.051	-1.118
95	95	-1.010	-2.216	95	-0.051	-1.128	95	-0.051	-1.121	95	-0.051	-1.118
96	96	-1.010	-2.216	96	-0.051	-1.128	96	-0.051	-1.121	96	-0.051	-1.118
97	97	-1.010	-2.216	97	-0.051	-1.128	97	-0.051	-1.121	97	-0.051	-1.118
98	98	-1.010	-2.216	98	-0.051	-1.128	98	-0.051	-1.121	98	-0.051	-1.118
99	99	-1.010	-2.216	99	-0.051	-1.128	99	-0.051	-1.121	99	-0.051	-1.118
100	100	-1.010										

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 65 ALPHA-MCL = 2.0 PUP RUN.PT 14.02  
PUN 14 ALPHA-SAR = .5 G-COMP = .32513  
POINT 12 SIGMA = -90. V-REF = 199.97  
COMPUTED FREQUENCY = 9.16, K = .0719

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=.005  
SUCTION

9

7

6

5

4

3

N	CP-MAG	PHI
1	19.054	155.61
2	1.716	223.38
3	1.185	307.38
4	1.105	104.57
5	.468	221.07
6	.491	69.18
7	.377	177.71
8	.355	42.76
9	.034	96.17
10	.077	23.71

X=.012 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI		
1	15.051	157.66	1	17.512	157.68	1	16.638	151.26	1	17.691	155.80	1	15.483	155.40	1	15.141	151.51
2	.497	132.45	2	1.476	150.53	2	.840	106.38	2	1.407	259.53	2	1.207	180.07	2	.311	139.67
3	.873	129.10	3	1.958	41.68	3	.927	285.31	3	1.010	208.39	3	1.717	150.21	3	1.010	112.97
4	.249	73.23	4	.478	25.00	4	.113	82.48	4	.848	83.24	4	.214	91.21	4	.778	106.22
5	.378	203.73	5	3.08	16.34	5	.289	352.93	5	.290	144.71	5	.304	298.76	5	.178	156.15
6	.077	193.17	6	.217	292.59	6	.289	216.88	6	.118	25.15	6	.140	211.49	6	.258	152.81
7	.378	262.67	7	.258	236.50	7	.286	197.53	7	.089	160.05	7	.050	252.76	7	.157	205.13
8	.108	111.74	8	.217	150.86	8	.129	141.81	8	.082	313.59	8	.075	161.18	8	.182	232.33
9	.018	202.08	9	.209	177.86	9	.129	203.69	9	.073	109.41	9	.109	353.35	9	.126	303.14
10	.018	313.48	10	.209	107.54	10	.117	262.57	10			10			10		

X=.020  
SUCTION

N	CP-MAG	PHI
6	.324	161.57
1	.224	278.35
2	.850	15.14
3	.812	82.94
4	.072	312.54
5	.192	322.61
6	.292	191.39
7	.166	123.93
8	.065	55.56
9	.084	88.20
10		



# MODE 2 -- LEADING EDGE PLANE DATA, -ALL STATIONS

FILE 65 ALPHA-MCL = 2.0 PDP RUN-PT 14.02  
 RUN 14 ALPHA-BAR = .5 O-COMP = .32513  
 POINT 12 SIGMA = -90. V-REF = 199.97  
 COMPUTED FREQUENCY = 9.16, M = .0719  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	7.407	171.34	1	5.102	167.45	1	7.314	152.39	1	8.770	159.75	1	7.275	169.61	1	6.793	150.05
2	2	1.275	151.58	2	1.349	249.80	2	1.304	167.57	2	1.342	153.20	2	1.285	165.55	2	1.310	180.18
3	3	1.059	107.48	3	1.018	9.37	3	1.013	280.42	3	1.093	196.80	3	1.089	122.15	3	1.007	300.37
4	4	1.004	178.94	4	.969	80.41	4	.978	85.39	4	.962	84.31	4	.950	140.07	4	.881	101.57
5	5	1.004	300.65	5	.970	316.47	5	.946	17.28	5	.056	21.06	5	.105	289.35	5	.082	218.11
6	6	.352	192.16	6	.251	24.76	6	.267	205.69	6	.276	21.85	6	.193	205.07	6	.176	218.11
7	7	.290	276.44	7	.224	190.11	7	.336	104.22	7	.252	22.85	7	.091	324.74	7	.237	148.60
8	8	.234	119.21	8	.224	131.94	8	.117	172.15	8	.144	151.39	8	.036	180.16	8	.139	202.00
9	9	.109	265.54	9	.100	80.41	9	.103	284.40	9	.089	270.39	9	.097	329.50	9	.124	226.53
10	10	.080	268.90	10	.100	80.41	10	.103	284.40	10	.084	114.87	10	.097	329.50	10	.124	226.53
X=.012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	12.732	318.73	1	12.129	338.46	1	12.645	330.27	1	14.205	309.39	1	12.898	339.21	1	12.898	339.21
2	2	1.258	42.25	2	1.195	343.91	2	1.360	179.80	2	1.319	9.06	2	1.202	272.31	2	1.202	272.31
3	3	1.197	72.77	3	1.115	86.04	3	1.188	84.88	3	1.449	74.80	3	1.119	99.12	3	1.119	99.12
4	4	1.115	81.04	4	.951	56.49	4	.059	356.12	4	.174	179.37	4	.215	210.82	4	.215	210.82
5	5	1.143	121.53	5	.271	200.12	5	.394	124.08	5	.274	159.84	5	.077	218.81	5	.077	218.81
6	6	.269	199.30	6	.334	117.94	6	.235	154.70	6	.216	279.62	6	.125	340.78	6	.125	340.78
7	7	.662	278.77	7	.164	147.67	7	.188	238.01	7	.176	279.62	7	.125	340.78	7	.125	340.78
8	8	.374	133.62	8	.153	120.63	8	.112	99.34	8	.176	279.62	8	.125	340.78	8	.125	340.78
9	9	.300	317.97	9	.011	344.42	9	.112	99.34	9	.176	279.62	9	.125	340.78	9	.125	340.78
10	10	.068	242.24	10	.011	344.42	10	.112	99.34	10	.176	279.62	10	.125	340.78	10	.125	340.78

\*\*\* ALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	.062			.125			.250			.375			.500		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	11.251	158.79	1	9.481	162.42	1	6.750	164.45	1	4.699	173.30	1	4.200	177.58
2	1	1.240	228.79	2	.802	240.64	2	1.525	194.20	2	1.673	219.46	2	1.603	216.58
3	1	1.204	203.81	3	.737	185.97	3	1.368	186.37	3	1.673	186.90	3	1.603	191.41
4	1	.164	176.55	4	.125	164.57	4	.138	211.51	4	.076	117.45	4	.082	134.03
5	1	.341	12.55	5	.353	21.51	5	.301	12.24	5	.380	17.14	5	.382	23.03
6	1	.266	30.98	6	.353	26.38	6	.386	26.58	6	.331	30.63	6	.427	31.52
7	1	.161	139.24	7	.182	145.13	7	.193	146.26	7	.202	162.67	7	.179	164.36
8	1	.131	319.68	8	.111	271.01	8	.150	276.58	8	.168	253.87	8	.157	281.16
9	1	.063	122.81	9	.163	113.36	9	.177	207.71	9	.144	107.36	9	.167	115.16
10	1			10			10			10			10		

MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 67 ALPHA-MCL = 2.0 POP PUN.PI 14.04  
 PUN 14 ALPHA-BAP = .5 P-COMP = .32560  
 POINT 4 SIGMA = -90.5 V-REF = 200.12  
 COMPUTED FREQUENCY = 15.54, M = .1220

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=.005  
 SUCTION

9

7

6

5

4

N CPREAL CPIMAG  
 1 16.655 -7.921  
 2 -1.172 -.835  
 3 -.075 1.175  
 4 -.391 .430  
 5 .233 .307  
 6 .066 -.015  
 7 .088 -.007  
 8 .024 .012  
 9 .020 -.074  
 10

X=.012  
 SUCTION  
 N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG  
 1 6.612 13.854 1 16.612 -7.449 1 -7.635 -14.004 1 -15.305 7.934 1 6.964 13.956 1 -7.400 -12.859  
 2 .203 .045 2 .626 .060 2 .093 .020 2 .153 .153 2 .121 .220 2 .231 .192  
 3 .125 .032 3 .272 .127 3 .191 .375 3 .109 .175 3 .147 .145 3 .145 .039  
 4 .090 .028 4 .583 .323 4 .077 .338 4 .073 .335 4 .072 .289 4 .140 .275  
 5 .280 .187 5 .482 .002 5 .191 .042 5 .143 .078 5 .072 .200 5 .040 .094  
 6 .157 .033 6 .116 .158 6 .043 .256 6 .025 .099 6 .019 .139 6 .052 .087  
 7 .024 .014 7 .173 .062 7 .079 .052 7 .062 .014 7 .065 .019 7 .146 .098  
 8 .007 .007 8 .064 .016 8 .108 .030 8 .021 .056 8 .140 .124  
 9 .009 .014 9 .027 .045 9 .024 .039 9 .002 .002 9 .026 .013  
 10 .009 .014 10 .027 .045 10 .024 .039 10 .002 .002 10 .026 .013

X=.030  
 SUCTION

N CPREAL CPIMAG  
 1 6.275 -2.295  
 2 .015 -.134  
 3 -.165 .243  
 4 -.000 .254  
 5 .079 .011  
 6 .007 .045  
 7 .012 .009  
 8 .012 .013  
 9 .003 .003  
 10

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 67 ALPHA-MCL = 2.0 POP RUN-PT 14.04  
 PUN 14 ALPHA-HAR = 9.5 Q-CREF = 32560  
 POINT 14 SIGMA = -9.5 V-REF = 200.12  
 COMPUTED FREQUENCY = 15.54, K = .1220

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
XZ=C62 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1.735	7.065	1.310	1	-2.892	-6.155	1	-7.467	3.122	1	1.885	6.984	1	-3.111	-5.749			
2	-.054	-.036	-.145	2	-.053	-.027	2	-.092	-.180	2	-.061	-.060	2	-.015	-.024			
3	-.116	-.146	-.290	3	-.242	-.299	3	-.302	-.177	3	-.130	-.049	3	-.015	-.024			
4	-.065	-.137	-.315	4	-.023	-.080	4	-.061	-.309	4	-.053	-.170	4	-.090	-.071			
5	-.228	-.127	-.104	5	-.123	-.050	5	-.114	-.107	5	-.062	-.131	5	-.020	-.038			
6	-.007	-.074	-.049	6	-.026	-.103	6	-.022	-.068	6	-.031	-.054	6	-.098	-.059			
7	-.123	-.011	-.012	7	-.010	-.052	7	-.017	-.022	7	-.033	-.029	7	-.018	-.038			
8	-.001	-.027	-.016	8	-.010	-.014	8	-.017	-.022	8	-.033	-.029	8	-.008	-.020			
9	-.042	-.047	-.003	9	-.005	-.024	9	-.057	-.030	9	-.093	-.078	9	-.078	-.020			
10	-.022	-.016	-.006	10	-.005	-.024	10	-.057	-.030	10	-.093	-.078	10	-.038	-.006			
XZ=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-7.945	-10.090	1	5.346	10.558	1	11.448	-7.172	1	13.335	-8.273	1	5.872	11.700				
2	-.167	-.019	2	-.193	-.129	2	-.690	-.071	2	-.939	-.145	2	-.233	-.106				
3	-.291	-.129	3	-.294	-.275	3	-.151	-.316	3	-.369	-.191	3	-.374	-.327				
4	-.111	-.135	4	-.124	-.275	4	-.010	-.261	4	-.035	-.314	4	-.022	-.036				
5	-.113	-.066	5	-.055	-.120	5	-.007	-.050	5	-.128	-.067	5	-.020	-.109				
6	-.158	-.039	6	-.036	-.064	6	-.080	-.005	6	-.111	-.060	6	-.015	-.018				
7	-.150	-.014	7	-.035	-.037	7	-.021	-.012	7	-.020	-.070	7	-.020	-.015				
8	-.014	-.025	8	-.019	-.010	8	-.022	-.015	8	-.010	-.050	8	-.038	-.020				
9	-.026	-.059	9	-.009	-.011	9	-.017	-.022	9	-.017	-.075	9	-.022	-.020				
10			10			10			10				10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938		
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-9.213	4.625	1	-5.467	1.682	1	-3.631	.226
2	-.547	-.059	2	-.073	-.152	2	-.084	-.146
3	.059	-.033	3	-.150	-.107	3	-.364	-.283
4	.104	-.169	4	-.019	-.303	4	-.050	-.436
5	-.030	-.238	5	-.058	-.162	5	-.081	-.103
6	-.025	-.086	6	-.006	-.126	6	-.092	-.088
7	-.029	-.057	7	-.016	-.025	7	-.002	-.004
8	-.025	-.052	8	-.042	-.079	8	-.000	-.002
9	-.003	-.018	9	-.042	-.079	9	-.029	-.015
10			10	-.011	-.029	10		

MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 67 ALPHA-MCL = 2.0 POP RUN PT 14.04  
 PU 14 ALPHA-BAD = 0.5 C-COPP = .32569  
 POINT 14 SIGMA = -90.5 V-REF = 200.12  
 FOURIER COEFFICIENTS, AMPLITUDE COMPUTED FREQUENCY = 15.54, K = .1220  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE:005  
 SUCTION

9

7

6

5

4

3

N	CP-MAG	PHI
1	18.445	154.57
2	1.422	214.49
3	1.177	266.34
4	1.036	120.29
5	.454	210.53
6	.325	22.74
7	.061	186.11
8	.388	355.70
9	.027	207.09
10	.077	285.35

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	15.352	154.49	1	19.203	155.85	1	15.959	151.40	1	17.240	152.67	1	15.597	153.49	1	14.836	150.08
2	.208	162.56	2	.628	22.43	2	.085	193.84	2	.353	220.43	2	.251	241.11	2	.300	219.78
3	.381	206.42	3	.300	33.04	3	.421	102.67	3	.343	177.67	3	.324	193.66	3	.300	219.78
4	.300	206.42	4	.669	33.04	4	.195	102.52	4	.163	208.13	4	.222	117.06	4	.309	217.00
5	.326	300.72	5	.482	23.77	5	.259	279.54	5	.102	204.45	5	.022	26.03	5	.170	202.90
6	.070	223.65	6	.196	23.77	6	.094	123.54	6	.064	167.45	6	.206	132.25	6	.111	213.21
7	.160	278.24	7	.071	145.35	7	.069	281.61	7	.057	287.24	7	.045	195.90	7	.125	268.50
8	.028	150.62	8	.174	145.35	8	.112	105.92	8	.057	192.14	8	.045	284.68	8	.120	268.50
9	.053	187.65	9	.064	145.35	9	.045	301.72	9	.057	192.14	9	.045	111.37	9	.042	191.04
10	.017	56.67	10	.051	112.04	10	.045	301.72	10	.057	192.14	10	.045	111.37	10	.042	191.04

XE:030  
 SUCTION

N	CP-MAG	PHI
1	6.678	159.99
2	.106	278.28
3	.293	304.12
4	.254	29.09
5	.072	352.14
6	.045	301.12
7	.015	143.44
8	.017	22.9.56
9	.016	127.49
10	.009	127.49

# MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 67 ALPHA-MCL = 2.0 POP RUN-PT 14.04  
 RUN 14 ALPHA-RAR = 0.5 O-CMP = 1250  
 POINT COMPTED FREQUENCY = 15.5% V-REF = 200.12  
 FOURIER COEFFICIENTS, AMPLITUDE = 15.5% K E .1220  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062						
SUCIION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	7.275 166.300	5.462 166.12	6.601 154.94	8.112 157.37	7.234 164.90	6.554 151.67
2	.054 6.50	.150 305.07	.060 219.05	.202 296.98	.152 315.27	.028 230.38
3	.187 38.59	.354 98.90	.385 219.05	.350 179.81	.139 110.62	.206 208.11
4	.343 79.11	.315 6.69	.289 94.50	.315 220.10	.199 315.44	.000 128.27
5	.261 299.33	.105 6.58	.131 112.00	.156 220.89	.101 122.90	.115 154.50
6	.074 264.36	.052 330.24	.044 184.21	.024 160.99	.104 220.92	.080 154.39
7	.124 295.35	.014 334.19	.053 105.64	.037 178.22	.095 220.92	.080 154.39
8	.027 271.58	.021 351.79	.053 105.64	.037 178.22	.095 220.92	.080 154.39
9	.063 221.71	.007 120.30	.024 280.60	.025 67.18	.035 124.62	.039 109.06
10	.027 35.22					

X=.012						
PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	12.843 321.78	11.649 333.23	13.509 327.93	13.339 328.68	13.091 333.35	13.091 333.35
2	.168 186.32	.233 213.76	.350 185.85	.350 185.85	.350 185.85	.350 185.85
3	.185 21.75	.418 224.63	.261 115.79	.261 115.79	.261 115.79	.261 115.79
4	.155 25.77	.301 65.35	.051 87.45	.051 87.45	.051 87.45	.051 87.45
5	.125 245.30	.122 155.35	.081 278.45	.081 278.45	.081 278.45	.081 278.45
6	.172 337.35	.051 160.60	.131 176.45	.131 176.45	.131 176.45	.131 176.45
7	.155 384.95	.051 316.92	.081 210.52	.081 210.52	.081 210.52	.081 210.52
8	.073 295.52	.021 157.43	.027 210.52	.027 210.52	.027 210.52	.027 210.52
9	.043 309.52	.021 242.96	.027 307.88	.027 307.88	.027 307.88	.027 307.88
10	.074 349.56	.014 129.13	.028 307.88	.028 307.88	.028 307.88	.028 307.88

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	W3	W4	W5	W7	W8	W9
GAP FRACTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	10.308 153.34	8.432 160.41	5.723 162.90	3.639 176.93	3.155 181.28	3.155 181.28
2	.301 218.76	.375 260.78	.169 195.67	.168 240.96	.174 218.61	.174 218.61
3	.311 70.19	.402 127.63	.184 144.35	.461 142.09	.364 145.84	.364 145.84
4	.311 259.96	.157 234.52	.163 186.35	.439 183.02	.450 191.27	.450 191.27
5	.311 259.96	.157 234.52	.163 186.35	.439 183.02	.450 191.27	.450 191.27
6	.311 259.96	.157 234.52	.163 186.35	.439 183.02	.450 191.27	.450 191.27
7	.311 259.96	.157 234.52	.163 186.35	.439 183.02	.450 191.27	.450 191.27
8	.311 259.96	.157 234.52	.163 186.35	.439 183.02	.450 191.27	.450 191.27
9	.311 259.96	.157 234.52	.163 186.35	.439 183.02	.450 191.27	.450 191.27
10	.311 259.96	.157 234.52	.163 186.35	.439 183.02	.450 191.27	.450 191.27

MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 69 ALPHA-MCL = 2.0 PDP RUN PT 14.06  
 PUN 14 ALPHA-BAR = .5 O-COMP = .32195  
 POINT 6 SIGMA = -.20. V-REF = 199.98  
 COMPUTED FREQUENCY = 19.24,  $\eta = .1519$

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

N	CPREAL	CPIMAG
1	17.223	-9.446
2	-.582	-.979
3	-.495	1.263
4	-.452	1.760
5	-.482	.058
6	.231	.247
7	.221	-.024
8	.154	-.075
9	.084	-.066
10	-.002	-.070

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	6.602	13.234	1	17.015	-8.838	1	-8.387	-14.756	1	-15.250	7.912
2	.873	-.053	2	1.619	-.182	2	-.019	.036	2	-.917	-.422
3	-.076	-.157	3	1.200	-.018	3	-.261	.244	3	-.306	-.045
4	-.157	-.076	4	1.552	-.427	4	-.118	.115	4	-.057	-.085
5	-.039	-.120	5	1.145	-.087	5	-.043	-.081	5	-.013	-.085
6	-.045	-.055	6	1.064	-.159	6	-.020	-.050	6	-.003	-.052
7	-.060	-.022	7	1.021	-.028	7	-.075	-.024	7	-.011	-.021
8	-.074	-.044	8	1.086	-.034	8	-.061	-.064	8	-.009	-.015
9	-.031	-.012	9	1.026	-.036	9	-.074	.061	9	-.015	-.060
10	-.031	-.012	10	1.026	-.036	10	-.074	.061	10	-.060	-.060

X=.030  
 SUCTION

N	CPREAL	CPIMAG
1	6.201	-2.940
2	-.541	-.160
3	-.062	.364
4	-.125	.226
5	.071	-.023
6	.002	.026
7	.085	-.009
8	.012	-.002
9	-.031	-.013
10	-.002	-.013



OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 69 ALPHA-MCL = 2.0 PDP PUN.PI 14.06  
RUN 14 ALPHA-BAR = .5 C-COMP = .32195  
POINT 6 SIGMA = -9.0 V-REF = 198.98  
COMPUTED FREQUENCY = 19.24, K = .1519

FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
SUCTION

N	CP-MAG	PHI
1	19.643	151.26
2	141	238.17
3	146	238.77
4	877	118.95
5	466	189.81
6	338	47.02
7	222	173.83
8	171	333.95
9	107	141.99
10	071	263.43

X=.012  
SUCTION

N	CP-MAG	PHI
1	19.174	152.55
2	1.620	353.59
3	697	322.27
4	169	325.10
5	235	225.01
6	113	225.53
7	035	123.29
8	116	133.42
9	044	234.42
10	033	329.33

X=.030  
SUCTION

N	CP-MAG	PHI
1	6.863	154.63
2	857	349.25
3	089	314.18
4	259	114.97
5	074	162.15
6	026	179.01
7	080	185.94
8	012	348.28
9	039	149.49
10	015	243.04

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N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	15.459	152.61	1	15.334	151.20	1	15.334	151.20
2	.769	238.27	2	.821	196.71	2	.821	196.71
3	.441	238.00	3	.441	196.71	3	.441	196.71
4	.122	238.00	4	.122	238.00	4	.122	238.00
5	.134	238.00	5	.134	238.00	5	.134	238.00
6	.090	238.00	6	.090	238.00	6	.090	238.00
7	.090	238.00	7	.090	238.00	7	.090	238.00
8	.029	329.33	8	.029	329.33	8	.029	329.33
9	.089	329.33	9	.089	329.33	9	.089	329.33
10	.110	238.29	10	.110	238.29	10	.110	238.29



# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 69 ALPHA-MCL = 2.0 PUP RUN-PT 14.06  
 RUN 14 ALPHA-BAR = .5 O-COMP = .32195  
 POINT 6 SIGMA = .90 V-REF = 198.98  
 COMPUTED FREQUENCY = 19.24, K = .1515  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	6.830 166.00	5.813 158.66	7.597 154.17	8.020 150.30	9.403 143.98	7.098 154.51
2	.677 174.74	.767 172.35	.322 171.08	.849 172.72	.139 174.74	.479 182.54
3	.317 174.15	.342 172.35	.237 171.08	.215 172.72	.125 174.67	.048 182.54
4	.178 174.15	.122 172.35	.143 171.08	.237 172.72	.125 174.67	.048 182.54
5	.015 155.03	.041 152.97	.046 151.84	.045 151.84	.074 150.76	.068 150.76
6	.049 142.54	.089 142.54	.011 136.06	.017 136.06	.027 136.06	.012 136.06
7	.050 142.54	.089 142.54	.011 136.06	.017 136.06	.027 136.06	.012 136.06
8	.050 142.54	.089 142.54	.011 136.06	.017 136.06	.027 136.06	.012 136.06
9	.183 251.89	.047 168.70	.054 313.54	.046 104.50	.066 304.90	.024 61.88
10	.105 3.53	.022 258.34	.054 313.54	.054 158.90	.066 16.75	.049 331.49
X=.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	13.593 322.01	11.781 330.07	13.954 323.59	13.620 309.41	12.410 332.53	12.410 332.53
2	.691 177.79	.376 180.47	.247 180.47	.261 180.47	.461 197.69	.052 177.79
3	.406 125.38	.141 146.36	.135 146.36	.261 161.49	.273 171.11	.052 185.35
4	.759 119.01	.435 190.60	.624 161.49	.087 161.49	.087 171.11	.093 110.24
5	.277 114.48	.035 167.96	.132 167.96	.087 161.49	.087 171.11	.093 110.24
6	.139 246.31	.024 115.93	.056 115.93	.056 115.93	.073 284.78	.035 200.79
7	.036 87.66	.024 115.93	.056 115.93	.056 115.93	.073 284.78	.035 200.79
8	.140 87.66	.027 152.02	.037 152.02	.037 152.02	.039 91.41	.090 123.13
9	.032 203.65	.044 137.46	.022 317.83	.040 184.02	.040 184.02	.042 123.13
10				.035 294.01	.035 294.01	.020 177.27

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	.062	.125	.250	.750	.875	.938
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	10.125 157.00	8.122 165.80	5.494 171.97	3.715 191.08	3.405 198.39	3.376 200.81
2	.268 293.26	.831 325.79	.910 349.37	.896 340.95	.150 184.48	.149 179.67
3	.353 317.86	.257 211.71	.215 202.01	.151 169.88	.150 175.54	.108 168.22
4	.061 317.86	.100 195.10	.105 202.01	.101 162.59	.113 293.54	.100 173.30
5	.061 317.86	.100 195.10	.105 202.01	.101 162.59	.113 293.54	.100 173.30
6	.061 317.86	.100 195.10	.105 202.01	.101 162.59	.113 293.54	.100 173.30
7	.061 317.86	.100 195.10	.105 202.01	.101 162.59	.113 293.54	.100 173.30
8	.061 317.86	.100 195.10	.105 202.01	.101 162.59	.113 293.54	.100 173.30
9	.061 317.86	.100 195.10	.105 202.01	.101 162.59	.113 293.54	.100 173.30
10	.044 167.81	.049 176.56	.053 184.11	.037 176.56	.025 154.21	.032 172.60

MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 52 ALPHA-MCL = 2.0 PDP RUN PT 11.08  
 PUNT 11 ALPHA-REF = .32567  
 PCINT 12 SIGMA = -.45 V-REF = 200.17  
 COMPUTED FREQUENCY = 9.13, M = .0717

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

XE=005  
 SUCTION

9

7

6

5

4

3

N CPREAL CPIMAG  
 1 -7.416-13.003  
 2 .409 -.686  
 3 -2.481 -.144  
 4 .427 -.296  
 5 .282 -.370  
 6 .052 -.038  
 7 .132 -.166  
 8 .027 -.333  
 9 -.043 .359  
 10 -.025 .017

XE=012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	2.085	-12.467	1	-6.787	-13.832	1	-13.202	-1.951	1	-10.664	8.055	1	13.190	13.190	1	13.001	2.794
2	-1.022	-1.371	2	-.980	-.760	2	-.771	-.831	2	-1.229	-1.740	2	-.938	-.723	2	-.523	-1.725
3	-.145	.730	3	.175	.694	3	.116	.747	3	-.124	.711	3	-.516	.564	3	-.232	.390
4	.451	-.236	4	.198	.693	4	.266	.280	4	.280	.221	4	.564	.516	4	.034	.359
5	-.253	-.154	5	-.133	-.572	5	-.018	.196	5	.025	-.011	5	.184	-.035	5	.034	-.060
6	-.037	-.017	6	-.076	-.089	6	-.108	-.035	6	.081	-.044	6	.087	.087	6	.099	-.084
7	-.101	-.017	7	-.098	-.132	7	-.098	-.165	7	.125	-.154	7	.087	.087	7	.128	-.036
8	.044	.041	8	-.056	-.043	8	.024	-.165	8	.081	.049	8	.087	.087	8	.099	-.084
9	.041	.041	9	-.056	-.043	9	.024	-.165	9	.081	.049	9	.087	.087	9	.099	-.084
10	.041	.041	10	-.056	-.043	10	.024	-.165	10	.081	.049	10	.087	.087	10	.099	-.084

XE=030  
 SUCTION

N CPREAL CPIMAG  
 1 -2.712 -5.306  
 2 -.373 -1.044  
 3 -.629 -.673  
 4 .079 .605  
 5 .257 .285  
 6 -.143 -.331  
 7 .079 -.008  
 8 -.067 -.146  
 9 .026 -.028  
 10 -.003 .028

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 52 ALPHA-MCL = 2.0 POP RUN PT 11.08  
 RUN 11 ALPHA-BAR = .5 9-CUMP = 32567  
 POINT 12 SIGMA = .45 V-REF = 200.17  
 COMPUTED FREQUENCY = 9.13, K = .0717

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SUCTION	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG
1	1.556	-5.068	-2.126	-4.607	1.406	-1.405
2	1.330	-1.231	-.327	-1.185	-1.307	-.082
3	-1.008	-1.004	-.836	-1.713	-.824	-.082
4	-.436	.174	-.312	.697	.705	-.051
5	-.272	.394	-.437	.320	.318	-.294
6	-.103	-.156	-.163	.408	-.356	-.092
7	-.114	-.109	-.064	-.022	-.064	-.115
8	-.013	-.212	-.078	-.022	-.022	-.003
9	-.023	-.010	-.016	-.020	-.029	-.060
10						
X=.012 PRESSURE	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG
1	-.559	11.243	-.559	11.243	-.559	11.243
2	-.531	-.904	-.531	-.904	-.531	-.904
3	-.873	-.799	-.873	-.799	-.873	-.799
4	-.024	.465	-.024	.465	-.024	.465
5	-.238	-.572	-.238	-.572	-.238	-.572
6	-.070	-.181	-.070	-.181	-.070	-.181
7	-.051	-.040	-.051	-.040	-.051	-.040
8	-.025	-.219	-.025	-.219	-.025	-.219
9	-.044	-.062	-.044	-.062	-.044	-.062
10						

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938
N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG
1	-6.623	-5.939	-4.076	-2.548	-2.181	-2.157
2	-1.364	-1.377	-1.365	-1.357	-1.353	-1.328
3	-.086	-.036	-.019	-.037	-.035	-.035
4	-.504	-.423	-.378	-.455	-.385	-.066
5	-.189	-.077	-.170	-.241	-.121	-.015
6	-.174	-.213	-.164	-.141	-.207	-.129
7	-.064	-.004	-.029	-.068	-.003	-.034
8	-.187	-.199	-.139	-.165	-.181	-.144
9	-.024	-.037	-.108	-.075	-.051	-.046
10						

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 52 ALPHA-MCL = 2.9 POP RUN, PT 11.08  
 PUN 11 ALPHA-BAR = 5.9 G-COMP = 1.367  
 POINT 12 SIGMA = -45. V-REF = 206.17  
 FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE=005  
 SUCTION

9

7

6

5

4

3

N	CP-MAG	PHI
1	14.969	150.10
2	.976	114.79
3	2.485	273.33
4	.519	34.68
5	.465	217.37
6	.064	216.47
7	.227	136.93
8	.044	311.43
9	.073	316.39
10	.030	213.89

XE=012 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	12.641	144.49	1	15.407	153.86	1	13.345	143.41	1	13.365	142.93	1	13.141	134.40	1	13.337	147.09	
2	1.035	350.87	2	.792	65.66	2	1.431	180.57	2	1.757	277.82	2	.824	4.85	2	1.803	196.86	
3	1.744	188.23	3	.910	19.27	3	1.172	193.83	3	1.637	225.82	3	.524	15.77	3	1.384	288.67	
4	.453	258.79	4	.715	75.85	4	.727	260.82	4	.755	70.27	4	.575	279.89	4	.428	297.81	
5	.354	134.57	5	.721	343.96	5	.386	181.40	5	.357	38.27	5	.185	303.78	5	.283	12.09	
6	.158	58.55	6	.587	176.94	6	.197	356.51	6	.274	275.18	6	.039	182.95	6	.157	202.56	
7	.103	158.43	7	.116	139.43	7	.110	54.63	7	.096	353.34	7	.033	120.17	7	.129	40.31	
8	.198	172.86	8	.164	184.33	8	.035	256.75	8	.092	331.26	8	.153	34.80	8	.132	119.40	
9	.077	147.86	9	.164	216.55	9	.193	255.73	9	.198	309.17	9	.072	13.80	9	.089	219.13	
10			10	.071	322.29	10	.060	336.42	10	.107	27.51	10	.081	59.17	10			

XE=030  
 SUCTION

N	CP-MAG	PHI
1	5.959	152.93
2	1.104	170.32
3	.921	316.98
4	.609	63.43
5	.382	317.84
6	.122	68.01
7	.085	58.44
8	.067	186.66
9	.144	189.94
10	.322	275.46

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 52 ALPHA-MCL = 2.0 POP RUN-PT 11.08  
 RUN 11 ALPHA-BAR = .5 Q-COMP = .32567  
 POINT 12 SIGMA = -.45 V-REF = .200.17  
 COMPUTED FREQUENCY = 9.13 M = .0717  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	5.332	153.10	1	5.074	155.23	1	5.956	148.65	1	6.378	144.63	1	9.294	144.19	1	9.268	156.33
	2	1.275	179.90	2	1.230	174.56	2	1.323	171.32	2	1.513	266.09	2	1.296	352.86	2	1.253	189.75
	3	1.718	263.41	3	1.700	313.15	3	1.707	265.89	3	1.416	222.16	3	1.126	2.22	3	1.270	279.33
	4	.469	145.36	4	.467	145.74	4	.375	182.25	4	.406	43.01	4	.370	278.84	4	.396	165.35
	5	.479	189.75	5	.467	169.57	5	.633	9.00	5	.381	256.08	5	.370	171.66	5	.351	133.33
	6	.187	172.46	6	.081	43.30	6	.633	9.00	6	.128	334.84	6	.075	289.78	6	.179	208.01
	7	.118	144.16	7	.081	195.49	7	.199	240.87	7	.106	296.92	7	.065	260.49	7	.155	114.91
	8	.212	130.15	8	.099	178.27	8	.056	301.12	8	.062	12.17	8	.150	345.23	8	.050	261.15
	10	.025	67.52	10	.025	231.05	10	.056	301.12	10	.062	12.17	10	.062	92.89	10	.050	261.15
X=.012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	11.257	317.94	1	8.553	320.68	1	10.226	314.91	1	13.761	294.42	1	11.018	314.91	1	11.018	314.91
	2	1.049	329.59	2	1.211	159.16	2	1.115	221.70	2	1.835	341.76	2	1.768	284.22	2	1.768	284.22
	3	.687	145.28	3	.672	276.22	3	.705	98.45	3	.377	247.31	3	.377	172.90	3	.377	172.90
	4	.799	264.31	4	.464	143.93	4	.478	43.45	4	.599	250.84	4	.599	250.84	4	.599	250.84
	5	.642	291.40	5	.564	337.93	5	.599	250.84	5	.224	301.20	5	.224	301.20	5	.224	301.20
	6	.619	157.35	6	.127	336.65	6	.224	301.20	6	.224	301.20	6	.224	301.20	6	.224	301.20
	7	.194	166.19	7	.084	176.38	7	.047	173.60	7	.279	202.10	7	.279	202.10	7	.279	202.10
	8	.095	237.28	8	.219	216.72	8	.209	268.54	8	.209	268.54	8	.209	268.54	8	.209	268.54
	9	.314	89.25	9	.047	186.68	9	.024	86.78	9	.024	86.78	9	.024	86.78	9	.024	86.78
	10	.076	324.79	10			10			10			10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	W3	W4	W5	W7	W8	W9						
GAP FRACTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	109	144.76	1	4.962	157.78	1	2.548	179.72	1	2.179	183.29
2	3	1964	254.44	2	1.962	262.04	2	1.012	258.55	2	1.950	258.60
3	3	1.837	222.36	3	1.817	221.31	3	1.012	219.16	3	1.950	221.87
4	5	.624	184.57	4	.825	221.10	4	1.019	92.07	4	1.921	221.87
5	5	.640	35.72	5	.623	52.61	5	.647	44.58	5	.569	47.50
6	7	.499	36.72	6	.531	25.53	6	.621	240.08	6	.615	258.03
7	7	.237	317.18	7	.236	324.63	7	.221	309.75	7	.241	325.03
8	8	.087	42.34	8	.072	33.01	8	.068	178.30	8	.032	83.56
9	9	.256	317.17	9	.257	317.93	9	.288	304.90	9	.306	308.27
10	10	.085	73.67	10	.150	63.89	10	.075	8.68	10	.055	23.02

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54  FILE      ALPHA-MCL = 2.0      PDP RUN.PT  11.0
11  RUN      ALPHA-BAR = .5        O-COMP     = 329556
14  POINT    ALPHA-SIGMA = -45.    V-REF      = 201.38
      COMPUTED FREQUENCY = 15.62,  K = .1219

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
COMPUTED BY:

BLADE NO. XE-005  
SUCTION

	CPREAL	CPIMAG
1	-7.743	-11.673
2	.691	-.662
3	-1.251	1.532
4	.252	-.396
5	-.234	-.343
6	.336	-.037
7	.128	.055
8	-.092	-.054
9	-.028	.140
0	.007	.015

X=012 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	1.438	-12.702	1	-11.605	-1.394	1	-9.082	8.021	1	12.731	1.067
	2	-1.519	-3.514	2	-1.289	-1.791	2	-1.158	0.973	2	12.094	-1.095
	3	-1.257	-5.344	3	-1.119	-1.169	3	-0.971	0.911	3	12.308	-0.943
	4	-2.268	-2.795	4	-1.055	-0.939	4	-0.912	1.158	4	10.373	-0.868
	5	-0.045	-2.655	5	-0.929	-0.668	5	-1.000	1.241	5	10.102	-0.848
	6	-0.115	-2.055	6	-0.821	-1.000	6	-0.947	1.428	6	10.641	-1.119
	7	-0.034	-1.703	7	-0.834	-0.834	7	-0.847	0.125	7	10.041	-0.985
	8	-0.111	-0.934	8	-0.956	-0.334	8	-0.016	0.028	8	10.019	-0.155
	9	-0.036	-0.326	9	-0.947	-0.612	9	-0.016	0.043	9	10.017	-0.127
	10	..	..	10	..	..	10	..	..	10	..	..

X=C3D SUCTION	N	CPREAL	CPIMAG
	1	-2.327	-5.099
	2	-1.450	-5.568
	3	-1.197	-5.005
	4	-1.174	-1.180
	5	-1.335	-1.244
	6	-1.034	-1.326
	7	-1.021	-1.032
	8	-1.069	-1.026
	9	-1.032	-1.033
	10	-1.001	-1.010

MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 54 ALPHA-MCL = 2.0 POP RUN.PT 11.10  
 RUN 11 ALPHA-BAR = .5 G-COMP = .32956  
 POINT 4 SIGMA = -45. V-REF = 201.38  
 COMPUTED FREQUENCY = 15.62, K = .1219

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	1.929	-5.387	1	-1.515	-4.620	1	-4.714	-1.551	1	-4.198	2.853	1	-0.11	5.916	1	6.112	1.473
	2	-0.375	-0.679	2	-1.476	-0.883	2	-4.128	-0.713	2	-1.261	-0.889	2	-0.67	-1.784	2	-1.53	-0.929
	3	-0.246	-0.251	3	-1.188	-0.002	3	-4.128	-0.050	3	-1.261	-0.004	3	-1.11	-1.44	3	-0.29	-0.200
	4	-0.284	-0.284	4	-1.201	-0.242	4	-1.65	-0.242	4	-1.314	-0.257	4	-1.27	-2.41	4	-0.67	-0.321
	5	-0.017	-0.289	5	-1.169	-0.169	5	-0.55	-0.187	5	-1.250	-0.350	5	-0.87	-0.045	5	-0.67	-0.059
	6	-0.086	-0.032	6	-1.016	-0.032	6	-0.055	-0.039	6	-0.084	-0.100	6	-0.048	-0.089	6	-0.035	-0.035
	7	-0.022	-0.054	7	-0.044	-0.016	7	-0.063	-0.042	7	-0.054	-0.045	7	-0.032	-0.062	7	-0.027	-0.083
	8	-0.090	-0.029	8	-0.022	-0.031	8	-0.040	-0.036	8	-0.014	-0.028	8	-0.079	-0.002	8	-0.034	-0.053
	9	-0.013	-0.013	9	-0.004	-0.002	9	-0.010	-0.006	9	-0.000	-0.002	9	-0.062	-0.038	9	-0.019	-0.041
	10			10			10			10			10			10		
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	1.235	9.836	1	9.119	-.443	1	9.119	-.443	1	7.637	-8.107	1	-3.108	-9.807	1	-9.378	-.512
	2	-0.329	-.470	2	-.726	-.082	2	-.202	-.082	2	-1.339	-.489	2	-1.728	-1.164	2	-.837	-.769
	3	-0.171	-.331	3	-.192	-.211	3	-.192	-.211	3	-.314	-.004	3	-1.220	-1.161	3	-.070	-.206
	4	-0.320	-.182	4	-.176	-.295	4	-.176	-.295	4	-.123	-.326	4	-0.084	-1.024	4	-0.122	-.143
	5	-0.013	-.051	5	-.053	-.022	5	-.053	-.022	5	-.013	-.111	5	-0.084	-0.095	5	-0.059	-.131
	6	-0.018	-.134	6	-.048	-.038	6	-.048	-.038	6	-.026	-.011	6	-0.116	-0.025	6	-0.036	-.060
	7	-0.034	-.008	7	-.016	-.020	7	-.016	-.020	7	-.059	-.014	7	-0.064	-0.064	7	-0.004	-.004
	8	-0.047	-.028	8	-.012	-.013	8	-.012	-.013	8	-0.001	-.015	8	-0.064	-0.064	8	-0.054	-.028
	9	-0.012	-.026	9	-.011	-.006	9	-.011	-.006	9	-0.001	-.015	9	-0.000	-0.004	9	-0.020	-.007
	10			10			10			10			10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	.062		.125		.250		.750		.875		.938	
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	-5.319	1.114	1	-4.530	1.281	1	-1.031	-.887	1	-1.129	752
2	2	-.002	1.257	2	-.524	1.439	2	-.759	1.197	2	-.129	-.678
3	3	-.084	1.148	3	-.085	1.104	3	-.198	1.335	3	-.043	-.166
4	4	-.056	1.376	4	-.064	1.365	4	-.218	1.039	4	-.329	-.166
5	5	-.024	1.380	5	-.020	1.321	5	-.089	1.022	5	-.224	-.107
6	6	-.016	1.071	6	-.012	1.080	6	-.025	1.022	6	-.077	-.011
7	7	-.036	1.025	7	-.069	1.043	7	-.061	1.056	7	-.054	-.059
8	8	-.030	1.086	8	-.032	1.063	8	-.042	1.056	8	-.058	-.059
9	9	-.031	1.083	9	-.033	1.060	9	-.013	1.015	9	-.049	-.059
10	10	-.031	1.083	10	-.033	1.060	10	-.013	1.015	10	-.049	-.059

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 54 ALPHA-MCL = 2.0 POP RUN.PT 11.10  
 RUN 11 ALPHA-BAR = .5  
 POINT 14 SIGMA = -4.5  
 Q-COMP = .32956  
 V-EFF = .20138  
 COMPUTED FREQUENCY = 15.62, K = .1219  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

9

7

6

5

4

N	CP-MAG	PHI
1	14.008	146.44
2	.957	136.21
3	1.978	219.23
4	.472	237.76
5	.416	145.71
6	.051	134.75
7	.140	113.35
8	.107	210.67
9	.143	11.29
10	.017	245.33

X=.012  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	12.287	141.72	1	15.025	150.46	1	11.855	141.68	1	12.117	138.55	1	12.210	130.11	1	12.067	143.23
2	.666	308.89	2	.382	69.31	2	.842	159.95	2	.977	210.07	2	.617	132.97	2	.194	144.23
3	.569	204.79	3	.982	245.75	3	.120	233.77	3	.182	258.91	3	.388	178.77	3	.406	145.67
4	.391	271.81	4	.384	12.27	4	.265	70.10	4	.254	303.97	4	.249	181.04	4	.286	145.67
5	.391	271.81	5	.167	154.21	5	.114	194.89	5	.279	124.05	5	.239	277.04	5	.434	148.76
6	.049	84.65	6	.155	254.21	6	.061	115.23	6	.179	208.06	6	.020	99.54	6	.157	149.46
7	.146	51.57	7	.137	222.02	7	.066	210.72	7	.019	208.06	7	.177	92.78	7	.078	149.46
8	.111	175.21	8	.117	76.33	8	.079	75.70	8	.053	239.33	8	.092	275.23	8	.121	150.53
9	.070	244.32	9	.057	236.27	9	.021	124.38	9	.027	262.90	9	.151	251.03	9	.021	150.53
10	.043	232.17	10	.065	236.27	10	.021	124.38	10	.048	262.90	10	.117	66.21	10	.048	150.53

X=.030  
 SUCTION

N	CP-MAG	PHI
1	5.605	155.47
2	.781	149.23
3	.197	91.54
4	.231	225.95
5	.184	132.26
6	.093	323.52
7	.039	213.52
8	.024	200.45
9	.046	243.67
10	.010	263.67



MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 54 ALPHA-MCL = 2.9 PUP RUN-PT 11.10  
 RUN 11 ALPHA-SIGMA = -4.5 Q-COMP = 32956  
 POINT 14 COMPUTED FREQUENCY = 15.62, K = .1219  
 V-REF = 201.38

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
XZ-062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	5.722 154.70	4.862 161.94	4.962 153.21	5.076 145.80	5.416 135.12	6.287 148.55
2	.690 319.75	.832 55.14	.835 148.49	.942 249.59	.907 329.31	.942 170.64
3	.352 248.50	.168 90.58	.137 203.46	.064 296.10	.269 167.29	.236 179.36
4	.272 45.56	.314 230.33	.293 55.82	.207 275.51	.165 165.31	.236 82.66
5	.406 270.39	.245 133.56	.195 28.52	.251 238.54	.098 197.44	.330 307.05
6	.406 270.39	.044 312.08	.067 234.54	.112 138.45	.048 197.51	.089 311.49
7	.103 103.21	.017 144.60	.045 112.13	.050 53.12	.112 82.47	.036 56.62
8	.078 201.69	.068 199.66	.070 210.81	.070 219.02	.072 243.42	.089 252.28
9	.107 257.54	.038 35.81	.053 93.01	.047 106.94	.079 226.64	.034 309.49
10	.019 44.72	.005 328.49	.011 121.32	.028 269.71	.073 258.40	.045 205.34
XZ-012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	9.913 307.84	9.129 312.22	11.137 313.29	10.288 297.42	9.392 318.13	1.137 327.99
2	.757 308.39	1.171 141.96	1.371 200.89	1.371 200.89	1.371 200.89	1.371 200.89
3	.467 41.56	.218 202.55	.339 359.32	.453 226.09	.243 24.87	.188 49.16
4	.229 41.56	.286 47.74	.453 226.09	.285 244.47	.481 145.02	.336 232.48
5	.368 254.59	.344 14.12	.285 244.47	.112 169.36	.112 169.36	.070 303.20
6	.052 345.35	.055 252.39	.112 169.36	.064 203.75	.044 222.83	.009 303.20
7	.154 218.14	.022 130.40	.064 203.75	.028 203.75	.088 222.83	.009 303.20
8	.035 192.91	.061 84.33	.028 203.75	.061 166.54	.064 222.83	.009 303.20
9	.055 14.60	.025 84.33	.061 166.54	.016 93.79	.034 263.27	.002 251.22
10	.028 334.72	.018 223.50	.016 93.79			

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 0.062	W4 0.125	W5 0.250	W7 0.750	W8 0.875	W9 0.938
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	6.778 142.28	5.072 150.20	2.764 160.70	1.369 220.72	1.304 240.75	1.504 239.99
2	1.174 121.95	.134 309.14	.317 246.25	.201 350.11	.187 340.74	.326 338.66
3	.386 257.42	.374 257.03	.317 246.25	.326 285.71	.306 238.93	.297 236.06
4	.343 179.47	.325 227.86	.308 278.96	.326 166.54	.340 194.94	.349 207.42
5	.084 151.00	.135 152.80	.091 191.35	.050 160.32	.025 173.25	.089 180.90
6	.074 176.00	.082 213.85	.043 218.11	.083 222.60	.046 234.84	.065 232.25
7	.111 129.13	.071 117.30	.088 139.48	.070 126.94	.074 141.15	.077 129.80
8	.088 249.58	.060 267.28	.031 290.09	.019 310.77	.023 291.15	.025 282.71
9						
10						

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 56 ALPHA-MCL = 2.0 POP PUN.PT 11.12  
 PUN 11 ALPHA-BAR = .5 O-COMP = .32259  
 POINT 6 SIGMA = -.45 W-REF = 199.20  
 COMPUTED FREQUENCY = 19.25, K = .1518

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.005 SUCTION	N CPREAL CPIMAG 1 -7.470-11.093 2 -1.787 -.309 3 -.308 -.780 4 .182 -.491 5 .016 -.096 6 .342 -.029 7 -.003 .077 8 -.001 .057 9 .020 -.057 10 -.035 .016	N CPREAL CPIMAG 1 -7.470-11.093 2 -1.787 -.309 3 -.308 -.780 4 .182 -.491 5 .016 -.096 6 .342 -.029 7 -.003 .077 8 -.001 .057 9 .020 -.057 10 -.035 .016	N CPREAL CPIMAG 1 -9.329 2 -.008 3 -.409 4 .211 5 -.166 6 -.091 7 -.102 8 -.096 9 -.009 10 -.003	N CPREAL CPIMAG 1 7.648 2 -.683 3 .049 4 .079 5 -.074 6 .171 7 .065 8 .005 9 .018 10 .001	N CPREAL CPIMAG 1 11.822 2 -.093 3 .197 4 .238 5 .056 6 .036 7 .080 8 -.030 9 -.021 10 -.001	N CPREAL CPIMAG 1 1.099 2 -.067 3 .258 4 .051 5 .027 6 .070 7 .051 8 .067 9 .062 10 -.051
X=.012 SUCTION	N CPREAL CPIMAG 1 .430-12.366 2 -.297 -.021 3 -.366 -.399 4 .145 .060 5 -.073 .215 6 -.049 .013 7 .126 .121 8 .046 .040 9 .102 .127 10 -.086 .057	N CPREAL CPIMAG 1 .105-12.732 2 .792 .023 3 .281 .114 4 .061 .144 5 .009 .015 6 .020 .049 7 .003 .013 8 .018 .060 9 .020 .060 10 .034 .010	N CPREAL CPIMAG 1 -12.595 2 -.011 3 .246 4 .146 5 .138 6 .028 7 .010 8 .015 9 .035 10 .015	N CPREAL CPIMAG 1 12.732 2 .023 3 .114 4 .144 5 .015 6 .049 7 .013 8 .060 9 .060 10 .010	N CPREAL CPIMAG 1 11.881 2 -.145 3 .110 4 .084 5 .206 6 .056 7 .044 8 .054 9 .171 10 .033	N CPREAL CPIMAG 1 1.099 2 -.067 3 .258 4 .051 5 .027 6 .070 7 .051 8 .067 9 .062 10 -.051
X=.030 SUCTION	N CPREAL CPIMAG 1 -3.095-5.175 2 -.319 -.258 3 .060 .199 4 -.041 .077 5 .020 .063 6 .007 .010 7 .005 .029 8 .006 .011 9 .012 .011 10 -.018 -.007	N CPREAL CPIMAG 1 -3.095-5.175 2 -.319 -.258 3 .060 .199 4 -.041 .077 5 .020 .063 6 .007 .010 7 .005 .029 8 .006 .011 9 .012 .011 10 -.018 -.007	N CPREAL CPIMAG 1 -3.095-5.175 2 -.319 -.258 3 .060 .199 4 -.041 .077 5 .020 .063 6 .007 .010 7 .005 .029 8 .006 .011 9 .012 .011 10 -.018 -.007	N CPREAL CPIMAG 1 -3.095-5.175 2 -.319 -.258 3 .060 .199 4 -.041 .077 5 .020 .063 6 .007 .010 7 .005 .029 8 .006 .011 9 .012 .011 10 -.018 -.007	N CPREAL CPIMAG 1 11.881 2 -.145 3 .110 4 .084 5 .206 6 .056 7 .044 8 .054 9 .171 10 .033	N CPREAL CPIMAG 1 1.099 2 -.067 3 .258 4 .051 5 .027 6 .070 7 .051 8 .067 9 .062 10 -.051

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 56 ALPHA-MCL = 2.0 POP RUN/PT 11.12  
 RUN 11 ALPHA-MCL = 2.0 O-COMP = .32259  
 POINT 6 SIGMA = -45. V-REF = 199.20  
 COMPUTED FREQUENCY = 19.25, K = .1518

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=0.02	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
SUCTION	1	1.119	-5.755	1	-2.324	-4.905	1	-5.596	-1.754	1	-4.786	2.439	1	-1.358	4.870	1	5.046	-8.556
	2	-.367	-.281	2	-.321	-.300	2	-.210	-.225	2	-.144	-.526	2	-.358	-.572	2	-.166	-.576
	3	-.045	-.176	3	-.068	-.190	3	-.108	-.051	3	-.137	-.078	3	-.092	-.270	3	-.076	-.844
	4	-.242	-.150	4	-.088	-.125	4	-.123	-.066	4	-.080	-.029	4	-.165	-.130	4	-.193	-.060
	5	-.025	-.148	5	-.047	-.054	5	-.004	-.095	5	-.133	-.047	5	-.135	-.121	5	-.041	-.064
	6	-.076	-.007	6	-.027	-.020	6	-.026	-.031	6	-.074	-.003	6	-.154	-.036	6	-.024	-.022
	7	-.171	-.050	7	-.000	-.000	7	-.002	-.001	7	-.029	-.003	7	-.028	-.084	7	-.004	-.003
	8	-.011	-.048	8	-.012	-.022	8	-.000	-.020	8	-.008	-.005	8	-.020	-.017	8	-.015	-.003
	9	-.203	-.028	9	-.012	-.005	9	-.000	-.001	9	-.000	-.010	9	-.021	-.059	9	-.006	-.003
	10	-.097	-.101	10	-.028	-.005	10	-.000	-.001	10	-.000	-.010	10	-.021	-.059	10	-.006	-.003
X=0.012	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
PRESSURE	1	4.65	9.594	1	8.513	-1.127	1	6.437	-8.842	1	4.243	3.805	1	4.243	3.805	1	9.948	-9.326
	2	-.369	-.276	2	-.552	-.775	2	-.736	-.039	2	-.449	-.168	2	-.449	-.168	2	-.105	-.300
	3	-.426	-.493	3	-.027	-.201	3	-.449	-.168	3	-.449	-.168	3	-.449	-.168	3	-.105	-.300
	4	-.222	-.431	4	-.019	-.198	4	-.212	-.425	4	-.006	-.078	4	-.082	-.160	4	-.230	-.063
	5	-.045	-.213	5	-.011	-.079	5	-.006	-.078	5	-.044	-.113	5	-.105	-.093	5	-.116	-.025
	6	-.042	-.032	6	-.000	-.007	6	-.075	-.113	6	-.075	-.113	6	-.105	-.093	6	-.088	-.025
	7	-.062	-.111	7	-.000	-.019	7	-.023	-.026	7	-.023	-.026	7	-.121	-.032	7	-.047	-.025
	8	-.074	-.022	8	-.036	-.009	8	-.032	-.083	8	-.032	-.083	8	-.036	-.068	8	-.006	-.004
	9	-.109	-.084	9	-.023	-.031	9	-.015	-.026	9	-.015	-.026	9	-.036	-.068	9	-.006	-.004
	10	-.049	-.061	10	-.023	-.031	10	-.015	-.026	10	-.015	-.026	10	-.036	-.068	10	-.006	-.004

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	W3	W4	W5	W7	W8	W9		
GAP FRACTION								
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-5.475	3.601	1	1.617	1.753	1	-1.743	-1.871
2	-.168	-.069	2	-.092	-.099	2	-.393	-.552
3	-.056	-.112	3	-.127	-.140	3	-.046	-.100
4	-.111	-.130	4	-.110	-.115	4	-.103	-.100
5	-.024	-.035	5	-.007	-.007	5	-.019	-.019
6	-.077	-.034	6	-.035	-.004	6	-.005	-.028
7	-.017	-.007	7	-.004	-.004	7	-.007	-.035
8	-.017	-.007	8	-.004	-.004	8	-.007	-.035
9	-.007	-.007	9	-.004	-.004	9	-.007	-.035
10	-.007	-.007	10	-.004	-.004	10	-.007	-.035

MODE 2 --- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 56 ALPHA-MCL = 2.0 POP RUN.PT 11.12  
 RUN 11 ALPHA-BAR = .5 O-COMP = .32259  
 POINT 6 SIGMA = -.45 V-REF = 199.20  
 6 COMPUTED FREQUENCY = 19.25, K = .1518

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE:005  
 SUCTION

N	CP-MAG	PHI
1	13.373	146.04
2	1.813	199.21
3	.839	201.57
4	.441	284.42
5	.097	350.77
6	.051	145.70
7	.077	182.21
8	.057	188.96
9	.060	199.14
10	.039	334.88

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	12.374	136.99	1	15.135	147.26	1	12.677	141.50	1	11.695	132.22
2	.298	274.02	2	.793	178.12	2	.132	175.23	2	.364	193.46
3	.543	182.26	3	.359	120.47	3	.246	223.93	3	.448	201.23
4	.157	337.60	4	.130	61.84	4	.169	29.87	4	.092	65.31
5	.229	295.19	5	.144	31.56	5	.225	20.54	5	.319	4.78
6	.050	77.46	6	.025	39.53	6	.194	189.32	6	.056	122.50
7	.175	91.22	7	.043	183.95	7	.123	117.03	7	.299	126.47
8	.061	319.15	8	.023	323.81	8	.096	176.85	8	.172	269.19
9	.147	178.64	9	.063	198.60	9	.021	117.14	9	.056	222.26
10	.109	308.10	10	.035	16.19	10	.003	159.16	10	.077	347.38

XE:030  
 SUCTION

N	CP-MAG	PHI
1	6.202	150.07
2	.411	38.93
3	.198	162.23
4	.087	241.81
5	.066	17.98
6	.011	296.07
7	.010	165.96
8	.012	300.21
9	.013	211.27
10	.018	224.50

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 56 ALPHA-MCL = 2.0 PUP RUN.PI 11.12  
 RUN 11 ALPHA-BAR = 4.5 O-CUMPI = 32259  
 POINT 16 SIGMA = -4.5 V-REF = 199.20  
 COMPUTED FREQUENCY = 19.25, K = .1518  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
X=.062 SUCTION	1	5.862	146.00	1	5.426	154.65	1	5.864	152.40	1	5.372	153.00	1	4.924	143.53	1	5.118	149.62
	2	.462	307.43	2	.440	43.04	2	.308	136.90	2	.546	254.60	2	.516	316.03	2	.599	163.91
	3	.281	210.77	3	.201	160.24	3	.140	246.93	3	.156	151.60	3	.290	206.73	3	.199	112.52
	4	.184	31.77	4	.153	234.83	4	.198	56.93	4	.085	140.51	4	.130	293.77	4	.196	119.31
	5	.150	305.42	5	.069	38.55	5	.155	277.43	5	.136	192.51	5	.200	7.80	5	.057	179.19
	6	.037	101.09	6	.030	35.37	6	.041	378.00	6	.087	147.90	6	.158	124.63	6	.094	138.95
	7	.179	118.64	7	.030	165.83	7	.041	175.00	7	.030	193.35	7	.089	121.63	7	.032	127.69
	8	.049	256.60	8	.000	282.98	8	.023	198.03	8	.043	184.07	8	.032	251.02	8	.038	22.59
	9	.205	217.26	9	.028	218.79	9	.023	198.82	9	.039	148.07	9	.062	339.88	9	.036	189.93
	10	.140	316.23	10	.029	10.36	10	.005	83.95	10	.010	270.78	10	.062	339.88	10	.036	189.93
X=.012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	9.605	312.23	1	8.587	307.46	1	10.937	306.05	1	10.937	306.05	1	10.684	291.60	1	9.991	320.77
	2	.461	306.83	2	.592	144.56	2	.206	327.68	2	.479	182.78	2	.887	330.10	2	.513	125.60
	3	.484	62.79	3	.200	82.21	3	.081	31.70	3	.475	243.40	3	.103	130.83	3	.127	159.56
	4	.218	146.79	4	.081	31.70	4	.081	31.70	4	.078	94.40	4	.109	130.83	4	.238	159.56
	5	.053	306.58	5	.031	256.23	5	.062	256.23	5	.121	291.79	5	.105	281.25	5	.192	206.60
	6	.145	350.33	6	.062	270.85	6	.035	331.61	6	.176	341.74	6	.168	281.25	6	.094	162.60
	7	.041	146.48	7	.037	270.85	7	.037	270.85	7	.035	331.61	7	.037	122.61	7	.011	162.60
	8	.138	140.85	8	.039	143.87	8	.029	240.21	8	.029	240.21	8	.037	89.90	8	.015	235.71
	10	.078	140.85	10	.039	143.87	10	.029	240.21	10	.029	240.21	10	.037	89.90	10	.015	235.71

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	.062			.125			.250			.750			.875			.938		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	6.721	147.60	1	5.456	162.76	1	3.511	176.29	1	5.81	217.59	1	2.559	237.05	1	2.791	236.40
	2	.939	220.63	2	.852	122.10	2	.740	243.32	2	.713	231.33	2	.677	234.37	2	.638	236.40
	3	.182	157.78	3	.117	122.10	3	.229	100.36	3	.105	278.00	3	.110	65.24	3	.110	92.00
	4	.125	296.72	4	.147	308.63	4	.117	284.41	4	.168	200.20	4	.183	50.52	4	.183	297.00
	5	.183	134.67	5	.133	162.63	5	.179	126.02	5	.133	221.31	5	.105	192.59	5	.105	220.00
	6	.111	182.11	6	.110	176.26	6	.105	168.02	6	.055	221.31	6	.049	202.59	6	.049	220.00
	7	.043	235.62	7	.037	174.37	7	.037	216.44	7	.042	226.64	7	.047	210.97	7	.047	220.00
	8	.087	207.58	8	.066	211.40	8	.037	232.88	8	.042	230.53	8	.047	210.97	8	.047	220.00
	9	.017	197.58	9	.008	165.85	9	.034	232.88	9	.027	240.21	9	.026	234.37	9	.026	236.40
	10	.026	174.32	10	.008	165.85	10	.034	232.88	10	.027	240.21	10	.026	234.37	10	.026	236.40

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 46 ALPHA-MCR = 2.0 POP RUN-PT 10.07  
 RUN 10 ALPHA-BAR = .5 O-COMP = .3207  
 POINT 12 SIGMA = 0. V-REF = .20029  
 COMPUTED FREQUENCY = 9.07, K = .6711

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XZ=005  
 SUCTION

N CPREAL CPIMAG  
 1-12.059 2.323  
 2 1.499 1.964  
 3 1.549 1.928  
 4 1.634 .387  
 5 -.033 -.008  
 6 .272 -.139  
 7 .161 .012  
 8 .110 .000  
 9 -.024 -.155  
 10 .030 -.001

XZ=012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1-10	.925	5.013	1-10	.973	3.849	1-9	.902	3.609	1-10	.601	1.707
2	.470	.235	2	.387	.038	2	.562	.030	2	.217	-.053
3	.984	.037	3	.399	.073	3	.792	.028	3	.295	-.239
4	.834	.037	4	.804	.021	4	.163	.069	4	.091	.501
5	.038	.061	5	.266	.064	5	.079	.071	5	.351	.021
6	.152	.069	6	.163	.093	6	.153	.071	6	.125	.089
7	.152	.069	7	.116	.214	7	.124	.352	7	.186	.103
8	.155	.102	8	.104	.038	8	.080	.049	8	.010	.009
9	.149	.022	9	.104	.019	9	.080	.019	9	.012	.021
10	.032	.014	10	.049	.034	10	.014	.033	10	.037	-.086

XZ=030  
 SUCTION

N CPREAL CPIMAG  
 1-5.188 1.984  
 2 .426 .125  
 3 .356 .261  
 4 .807 .057  
 5 .184 .115  
 6 .145 .013  
 7 .085 .204  
 8 .125 .027  
 9 .084 .018  
 10 .022 .010

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FILE      ALPHA-MCL = 2.0      POP RUN.PT  66.07
RUN       ALPHA-BAR = .5        O-COMP     .32607
POINT    2          SIGMA = 0.  V-REF      206.29
          COMPUTED FREQUENCY = 9.07,  W = .0711

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X-062  
SUCION

3		4		5		6		7		9	
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-4.044	2.433	1	-3.636	1.861	1	-3.853	2.268	1	-3.733	2.113
2	-4.664	-1.477	2	-4.770	0.027	2	-4.553	0.120	2	-4.722	0.037
3	-1.667	-1.866	3	-4.833	-0.298	3	-4.853	0.120	3	-4.940	0.037
4	-1.037	0.311	4	-4.962	-0.093	4	-4.983	0.064	4	-4.959	0.357
5	-1.225	0.168	5	-4.168	-0.127	5	-4.216	0.119	5	-4.358	0.109
6	-1.179	0.230	6	-4.168	-0.127	6	-4.121	0.119	6	-4.095	0.069
7	-1.089	0.232	7	-4.094	-0.219	7	-4.106	0.209	7	-4.055	0.166
8	-1.154	0.074	8	-4.157	-0.020	8	-4.136	0.059	8	-4.022	0.227
9	-1.128	-0.074	9	-4.083	-0.020	9	-4.068	0.059	9	-4.063	0.005
10	-0.008	-0.000	10	-4.018	-0.004	10	-4.019	-0.018	10	-4.002	-0.037
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	11.077	-2.041	1	9.275	1.192	1	9.359	1.426	1	6.702	2.216
2	-1.085	-3.306	2	-6.554	-1.378	2	-6.554	-1.378	2	-6.554	-0.705
3	1.182	-2.235	3	-1.098	1.277	3	-1.098	1.277	3	-1.126	-0.705
4	-2.177	-0.358	4	-1.188	1.153	4	-1.188	1.153	4	-1.281	0.106
5	-0.004	-1.188	5	-1.034	1.194	5	-1.034	1.194	5	-0.891	-0.230
6	-0.030	-0.600	6	-1.542	-0.199	6	-1.542	-0.199	6	-0.915	-0.174
7	-0.038	-0.000	7	-0.044	-0.007	7	-0.044	-0.007	7	-0.137	-0.045
8	-0.041	-0.005	8	-0.039	-0.012	8	-0.039	-0.012	8	-0.157	-0.155
9	-0.000	-0.000	9	-0.000	-0.000	9	-0.000	-0.000	9	-0.000	-0.000
10	-0.000	-0.000	10	-0.000	-0.000	10	-0.000	-0.000	10	-0.000	-0.000
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

### GAP FRACTION

	W3 .062		W4 .125		W5 .250		W7 .750		W8 .875		W9 .936	
	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N
1	1.233	2.715	1	-3.759	2.510	1	-1.393	2.276	1	1.468	2.063	1
2	1.233	2.715	2	.686	1.142	2	.690	.027	2	.588	.035	2
3	1.233	2.715	3	-1.723	-.565	3	1.379	-.574	3	-.743	-.641	3
4	1.233	2.715	4	1.381	.267	4	-.189	.091	4	1.451	.250	4
5	1.233	2.715	5	1.197	.072	5	-.136	-.329	5	-.277	-.009	5
6	1.233	2.715	6	-.132	-.381	6	-.134	-.332	6	-.130	-.034	6
7	1.233	2.715	7	1.132	.007	7	-.200	-.030	7	1.166	-.053	7
8	1.233	2.715	8	1.167	-.012	8	-.063	-.038	8	-.160	-.024	8
9	1.233	2.715	9	-.114	.021	9	-.005	.001	9	-.023	-.011	9
10	1.233	2.715	10	.059	.003	10	-.003	.001	10	-.003	-.003	10

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 46 ALPHA-MCL = 2.0 PGP RUN.PT 10.07  
 RUN 10 ALPHA-BAR = .5 Q-COMP = .32607  
 POINT 12 ALPHA-SIGMA = 0. V-REF = 200.29  
 FOURIER COEFFICIENTS, AMPLITUDE COMPUTED FREQUENCY = 9.07, K = .0711  
 \*\*\* BLADE PRESSURES, DEG RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

9

7

6

5

4

N	CP-MAG	PHI
1	12.281	169.10
2	1.471	152.65
3	1.079	300.60
4	1.679	13.32
5	.034	192.91
6	.305	333.00
7	.161	4.32
8	.110	359.82
9	.157	261.16
10	.030	358.34

X=.012  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	12.020	155.35	1	15.765	167.17	1	11.346	160.17	1	10.346	163.16
2	1.526	126.58	2	1.056	247.43	2	.349	358.35	2	.490	358.35
3	1.044	199.82	3	.472	137.06	3	.546	223.14	3	.618	206.66
4	.038	359.50	4	.429	14.87	4	.404	1.49	4	.797	4.98
5	.071	237.93	5	.307	141.73	5	.273	166.59	5	.164	173.79
6	.167	155.56	6	.285	159.46	6	.183	150.23	6	.106	138.48
7	.282	146.33	7	.295	139.74	7	.243	118.93	7	.269	124.93
8	.186	188.23	8	.186	173.61	8	.111	150.93	8	.124	176.46
9	.151	203.49	9	.142	171.41	9	.106	190.41	9	.080	174.74
10	.035	203.49	10	.141	207.87	10	.060	215.00	10	.093	261.31

X=.030  
 SUCTION

N	CP-MAG	PHI
1	5.554	159.97
2	.444	116.21
3	.442	216.26
4	.809	4.02
5	.216	147.99
6	.146	185.32
7	.222	113.47
8	.128	167.55
9	.034	192.30
10	.024	203.95

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	10.737	170.85	1	9.179	156.85	1	10.346	163.16	1	10.346	163.16
2	.223	170.85	2	.429	137.06	2	.349	358.35	2	.490	358.35
3	.380	170.85	3	1.073	300.60	3	.546	223.14	3	.618	206.66
4	.351	170.85	4	.761	4.98	4	.164	173.79	4	.106	138.48
5	.351	170.85	5	.173	166.59	5	.269	124.93	5	.080	174.74
6	.150	151.05	6	.106	138.48	6	.124	176.46	6	.035	253.92
7	.212	151.05	7	.395	201.53	7	.179	253.92	7	.059	309.08
8	.013	151.05	8	.121	186.02	8	.035	253.92	8	.059	309.08
9	.039	151.05	9	.179	253.92	9	.035	253.92	9	.059	309.08
10	.059	309.08	10	.035	253.92	10	.035	253.92	10	.059	309.08



MODE 2 -- LEADING EDGE DATA, ALL STATIONS

FILE 46 ALPHA-MOL = 2.0 POP PUN.PI 10.07  
 RUN 10 ALPHA-BAR = .5 C-COMP = .32607  
 POINT 12 SIGMA = G. V-REF = 200.29  
 COMPUTED FREQUENCY = 5.07. W = .0711

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
XE:062 SUCTION	1	4.720	148.97	1	4.065	152.89	1	4.476	149.56	1	4.290	150.48	1	4.122	142.99	1	4.618	160.97
	2	4.466	17.57	2	4.325	33.25	2	4.451	1.56	2	4.772	213.43	2	4.498	3.79	2	4.338	9.73
	3	7.58	210.19	3	5.67	215.67	3	6.14	218.18	3	6.47	213.43	3	986	214.33	3	5.550	227.28
	4	1.037	137.60	4	1.207	144.05	4	1.961	152.84	4	1.81	157.76	4	1.001	176.98	4	.233	163.70
	5	.165	173.56	5	.165	186.08	5	.122	171.20	5	.096	170.24	5	.090	169.80	5	.077	150.41
	6	.177	107.59	6	.169	113.08	6	.233	114.28	6	.250	114.86	6	.331	113.30	6	.216	130.47
	7	.254	161.27	7	.249	174.07	7	.156	174.26	7	.132	183.03	7	.122	195.30	7	.051	205.75
	8	.163	209.86	8	.158	193.19	8	.069	187.57	8	.063	175.87	8	.103	173.70	8	.050	137.77
	9	.006	180.41	9	.018	192.39	9	.026	223.01	9	.038	272.53	9	.012	255.25	9	.026	133.17
	10	.006	180.41	10	.018	192.39	10	.026	223.01	10	.038	272.53	10	.012	255.25	10	.026	133.17
XE:012 PRESSURE	1	11.263	349.56	1	9.277	358.81	1	9.826	358.81	1	9.826	358.81	1	6.705	1.85	1	10.794	9.09
	2	.356	222.27	2	.389	237.51	2	.718	337.02	2	.407	337.38	2	.620	352.73	2	1.044	323.59
	3	1.450	222.27	3	1.105	210.51	3	1.157	210.51	3	1.157	210.51	3	.480	352.73	3	1.044	323.59
	4	.316	132.73	4	.173	118.45	4	.159	108.56	4	.159	108.56	4	1.131	5.39	4	1.191	5.39
	5	.201	205.12	5	.187	225.19	5	.128	196.86	5	.128	196.86	5	.364	140.69	5	1.096	102.37
	6	.118	92.82	6	.197	239.87	6	.241	101.56	6	.241	101.56	6	.105	212.59	6	.113	101.56
	7	.078	213.82	7	.153	187.11	7	.180	172.86	7	.180	172.86	7	.137	187.78	7	.182	211.93
	8	.078	213.82	8	.153	187.11	8	.180	172.86	8	.180	172.86	8	.137	187.78	8	.182	211.93
	9	.042	241.26	9	.045	189.44	9	.033	165.91	9	.033	165.91	9	.073	38.76	9	.091	119.51
	10	.042	241.26	10	.045	189.44	10	.033	165.91	10	.033	165.91	10	.073	38.76	10	.091	119.51

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

GAP FRACTION	.052			.125			.250			.500			.750			.938		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
GAP FRACTION	1	5.784	152.01	1	4.520	146.27	1	2.669	121.47	1	2.460	60.18	1	2.531	54.56	1	2.437	54.37
	2	.802	339.02	2	.701	348.31	2	.691	2.23	2	.460	60.18	2	.589	54.56	2	.530	54.37
	3	.870	217.45	3	.917	217.97	3	.948	217.28	3	.987	218.54	3	.981	220.78	3	.940	221.75
	4	1.277	171.56	4	1.406	170.87	4	1.349	171.15	4	1.483	171.55	4	1.472	151.03	4	1.390	151.03
	5	.174	185.50	5	.209	183.26	5	.210	154.23	5	.226	155.08	5	.302	151.03	5	.289	150.49
	6	.342	101.19	6	.404	109.15	6	.355	112.18	6	.344	112.55	6	.343	112.19	6	.305	113.56
	7	.089	167.41	7	.162	187.08	7	.280	185.66	7	.181	186.13	7	.174	197.69	7	.163	191.58
	8	.117	196.85	8	.114	174.07	8	.074	149.07	8	.053	129.52	8	.065	161.69	8	.028	144.32
	9	.137	19.30	9	.059	2.59	9	.006	165.82	9	.038	21.92	9	.025	333.93	9	.005	152.11
	10	.137	19.30	10	.059	2.59	10	.006	165.82	10	.038	21.92	10	.025	333.93	10	.005	152.11

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 48 ALPHA-MCL = 2.0 PGP RUN/PT 10.09  
 PUN 10 ALPHA-SAR = .5 O-COMP = .32220  
 POINT 4 SIGMA = 0. V-REF = .199.08  
 COMPUTED FREQUENCY = 15.44, K = .1218

FOUPLIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3  
 X=0.05  
 SUCTION

N	CPREAL	CPIMAG
1	-12.582	2.599
2	-2.186	1.457
3	.485	.126
4	.845	.126
5	.124	.010
6	.122	.015
7	.141	.051
8	-.035	.058
9	.022	.071
10	.095	.060

X=0.12  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-4.937	4.237	1	-9.544	2.671	1	-9.396	2.058
2	-7.798	-12.125	2	.921	-.065	2	1.039	-.170
3	-1.110	-1.011	3	.357	.040	3	-.160	-.040
4	.258	.101	4	.160	.119	4	.223	.186
5	.262	.140	5	.052	.112	5	-.053	-.053
6	.035	.073	6	.010	.060	6	.010	.106
7	-.026	.068	7	.026	.001	7	.019	.011
8	-.035	-.087	8	.018	-.091	8	.062	-.072
9	-.040	-.131	9	-.001	-.089	9	-.003	-.099
10	.048	-.010	10	.074	.002	10	.070	.037

X=0.33  
 SUCTION

N	CPREAL	CPIMAG
1	-5.157	.971
2	.875	-.071
3	.350	-.012
4	.144	.061
5	.024	.128
6	.007	.027
7	.024	.004
8	.033	-.067
9	-.000	-.045
10	-.042	-.002

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# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 48 ALPHA-MCL = 2.0 PUP RUN-PT 10.59  
 RUN 10 ALPHA-BAR = .5 O-COMP = .32220  
 POINT 4 SIGMA = 0. V-REF = 199.08  
 COMPUTED FREQUENCY = 15.44, K = .1218

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	-4.260	1.299	1	-3.954	0.537	1	-3.959	0.844	1	-3.961	0.686	1	-3.680	0.700	1	-4.629	-0.183
	2	1.005	-0.215	2	0.954	-0.202	2	0.955	-0.148	2	1.095	-0.189	2	1.026	-0.063	2	0.843	-0.033
	3	1.159	-0.175	3	1.368	-0.034	3	1.354	-0.041	3	1.261	-0.052	3	1.189	-0.043	3	0.977	0.000
	4	1.203	-0.068	4	1.170	-0.048	4	1.170	-0.041	4	1.261	-0.052	4	1.188	-0.043	4	1.149	0.000
	5	1.153	-0.149	5	0.027	-0.151	5	0.055	-0.132	5	0.060	-0.121	5	0.198	-0.138	5	1.05	-0.068
	6	-0.038	0.034	6	0.008	-0.044	6	-0.008	-0.139	6	-0.017	-0.057	6	-0.064	0.034	6	-0.049	-0.048
	7	-0.036	0.047	7	0.027	-0.048	7	0.009	-0.10	7	0.064	-0.021	7	0.060	-0.069	7	0.08	-0.035
	8	0.050	-0.081	8	0.035	-0.068	8	0.008	-0.068	8	0.064	-0.061	8	0.090	-0.069	8	0.096	-0.038
	9	0.015	-0.103	9	-0.002	-0.056	9	0.002	-0.054	9	0.006	-0.080	9	-0.020	-0.142	9	0.043	-0.039
	10	0.013	-0.029	10	0.038	-0.010	10	0.051	-0.007	10	0.052	-0.036	10	-0.095	0.093	10	0.060	-0.047
X=012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	9.143	-4.170	1	7.554	-2.341	1	8.482	-2.180	1	5.772	-1.620	1	9.419	-3.39	1	9.419	-3.39
	2	0.840	-0.591	2	0.933	-0.424	2	0.931	-0.428	2	1.357	-0.408	2	1.475	-0.408	2	1.475	-0.408
	3	0.728	-0.056	3	0.516	-0.096	3	0.516	-0.096	3	1.615	-0.093	3	1.079	-0.093	3	1.079	-0.093
	4	-0.075	-0.100	4	0.060	-0.162	4	0.060	-0.162	4	-0.028	-0.015	4	-0.059	-0.015	4	-0.059	-0.015
	5	-0.338	-0.223	5	0.033	-0.044	5	0.033	-0.044	5	-0.016	-0.003	5	-0.057	-0.003	5	-0.057	-0.003
	6	-0.080	-0.012	6	-0.038	-0.040	6	-0.005	-0.027	6	-0.088	-0.005	6	-0.077	-0.005	6	-0.077	-0.005
	7	0.032	-0.124	7	0.066	-0.032	7	0.066	-0.032	7	0.024	-0.011	7	0.077	-0.011	7	0.077	-0.011
	8	0.030	-0.018	8	0.024	-0.004	8	0.024	-0.004	8	-0.025	-0.004	8	0.010	-0.004	8	0.010	-0.004
	9	-0.026	0.067	9	-0.012	-0.012	9	-0.012	-0.012	9	-0.025	-0.004	9	0.010	-0.004	9	0.010	-0.004
	10	-0.013	0.005	10	0.003	-0.004	10	0.003	-0.004	10	-0.025	-0.004	10	0.010	-0.004	10	0.010	-0.004

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	.062		.125		.250		.750		.875		.938	
GAP FRACTION	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL
1	1	-5.061	1	-4.003	1	-1.946	1	1.346	1	1.709	1	1.704
2	2	1.327	2	1.425	2	1.447	2	1.335	2	1.528	2	1.415
3	3	1.324	3	1.506	3	0.555	3	1.520	3	1.520	3	1.481
4	4	1.259	4	1.244	4	0.231	4	1.187	4	0.212	4	0.211
5	5	0.033	5	0.063	5	0.063	5	1.099	5	0.069	5	0.059
6	6	-0.031	6	-0.042	6	-0.063	6	-0.045	6	-0.036	6	-0.035
7	7	0.051	7	0.042	7	0.040	7	1.054	7	0.131	7	0.089
8	8	0.085	8	0.088	8	0.117	8	1.024	8	0.089	8	0.089
9	9	0.024	9	0.020	9	0.047	9	1.044	9	0.029	9	0.029
10	10	0.088	10	0.090	10	0.059	10	0.044	10	0.062	10	0.061

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 48 ALPHA-MCL = 2.0 POP RUN.PI 10.09  
 PUN 10 ALPHA-BAR = .5 G-COMP = .3220  
 POINT 4 SIGMA = 0. V-REF = 199.08  
 FOURIER COEFFICIENTS, AMPLITUDE COMPUTED FREQUENCY = 15.44, K = .1218  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE:005  
 SUCTION

9

7

6

5

4

N	CP-MAG	PHI
1	12.848	168.33
2	2.644	34.23
3	.501	14.54
4	.852	17.18
5	.125	4.50
6	.122	352.94
7	.150	340.15
8	.094	248.46
9	.075	287.54
10	.112	32.23

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	10.802	156.91	1	12.589	167.28	1	9.911	164.37	1	9.618	157.64
2	.806	150.64	2	.568	101.72	2	.925	354.74	2	1.112	351.20
3	.269	245.92	3	.157	101.35	3	.360	6.31	3	.165	345.68
4	.297	21.34	4	.145	251.65	4	.198	36.60	4	.290	39.82
5	.081	115.59	5	.044	82.37	5	.124	294.62	5	.119	308.65
6	.092	107.67	6	.045	294.22	6	.066	80.34	6	.107	84.56
7	.094	292.26	7	.133	278.76	7	.006	354.93	7	.041	15.04
8	.137	252.91	8	.062	279.48	8	.092	281.51	8	.095	310.58
9	.049	348.70	9	.074	7.58	9	.046	269.22	9	.079	27.99
10			10			10		1.54	10		

XE:030  
 SUCTION

N	CP-MAG	PHI
1	5.247	169.34
2	.878	355.35
3	.350	357.98
4	.157	22.08
5	.130	280.64
6	.028	274.97
7	.024	350.12
8	.075	295.80
9	.045	269.67
10	.043	10.96

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48 ALPHA-MCL = 2.0      PUP RUN.PI 10.09
10 ALPHA-BR = .5        Q-COMP = .32220
4  SIGMA = 0.           V-REF = 199.08
0  COMPUTED FREQUENCY = 15.44, K = .1218
LITUDE & UNBIASED PHASE ANGLE

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FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN

COMPUTED FREQUENCY = 1  
UNBIASED PHASE ANGLE

FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN

BLADE NO.

5

5

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2

6

X=062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	.454	163.05	1	3.888	172.06	1	4.058	167.99	1	3.746	169.30
	2	1.028	331.25	2	.979	334.97	2	.987	351.41	2	1.027	356.57
	3	.214	18.57	3	.177	354.80	3	.169	353.16	3	.193	374.91
	4	.251	315.96	4	.153	280.32	4	.143	192.76	4	.273	350.18
	5	.051	127.39	5	.045	79.72	5	.034	101.49	5	.095	325.37
	6	.096	301.16	6	.083	336.01	6	.074	49.57	6	.113	322.57
	7	.104	277.68	7	.054	267.68	7	.054	302.58	7	.143	322.57
	8	.052	66.17	8	.035	14.13	8	.031	8.33	8	.133	262.03
	9			9			9			9		
	10			10			10			10		
X=012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	10.047	35.49	1	7.999	325.78	1	8.752	345.51	1	5.917	344.32
	2	1.730	335.58	2	.835	344.66	2	.525	349.41	2	1.622	351.32
	3	.125	306.39	3	.130	344.06	3	.172	290.40	3	.195	330.09
	4	.081	351.18	4	.043	153.06	4	.052	273.05	4	.028	318.67
	5	.128	284.29	5	.064	348.74	5	.027	101.22	5	.071	259.73
	6	.034	330.77	6	.024	53.55	6	.027	350.48	6	.088	374.91
	7	.072	159.69	7	.065		7	.017	350.48	7	.083	169.66
	8			8			8			8		
	9			9			9			9		
	10			10			10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.  
GAP FRACTION

55

50

102

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Q. 20

Reaction	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	2	1287	171.58	1	575	307.04	1	885	323.26	1	885	323.26	1	885	323.26
2	1	1287	171.58	1	575	307.04	1	885	323.26	1	885	323.26	1	885	323.26
3	3	1287	171.58	1	575	307.04	1	885	323.26	1	885	323.26	1	885	323.26
4	1	1287	171.58	1	575	307.04	1	885	323.26	1	885	323.26	1	885	323.26
5	1	1287	171.58	1	575	307.04	1	885	323.26	1	885	323.26	1	885	323.26
6	1	1287	171.58	1	575	307.04	1	885	323.26	1	885	323.26	1	885	323.26
7	1	1287	171.58	1	575	307.04	1	885	323.26	1	885	323.26	1	885	323.26
8	1	1287	171.58	1	575	307.04	1	885	323.26	1	885	323.26	1	885	323.26
9	1	1287	171.58	1	575	307.04	1	885	323.26	1	885	323.26	1	885	323.26
10	1	1287	171.58	1	575	307.04	1	885	323.26	1	885	323.26	1	885	323.26

ORIGINAL PAGE IS  
OF POOR QUALITY

UCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE SU ALPHA-MCL = 2.0 POP RUN PT 12.14  
RUN IU ALPHA-MCL = 2.5 C-COMPS = 189.42  
POINT COMPUTED SIGMA = 2.0 V-REF = 189.42  
FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

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BLADE NO.  
X=700  
SUCTION

N	CPREAL	CPIMAG
1-12	.375	3.588
1	.974	.411
2	.396	.427
3	.318	.139
4	.159	.050
5	.053	.036
6	.021	.011
7	.010	.005
8	.003	.002
9	.001	.001
10	.000	.000

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1-11	.824	2.314	2	.314	1.398	1-10	.431	1.398	1	.431	1.398
1	.216	.136	1	.216	.136	2	.297	.153	2	.297	.153
2	.013	.007	3	.007	.004	3	.007	.004	3	.007	.004
3	.002	.001	4	.001	.000	4	.001	.000	4	.001	.000
4	.000	.000	5	.000	.000	5	.000	.000	5	.000	.000
5	.000	.000	6	.000	.000	6	.000	.000	6	.000	.000
6	.000	.000	7	.000	.000	7	.000	.000	7	.000	.000
7	.000	.000	8	.000	.000	8	.000	.000	8	.000	.000
8	.000	.000	9	.000	.000	9	.000	.000	9	.000	.000
9	.000	.000	10	.000	.000	10	.000	.000	10	.000	.000
10	.000	.000	11	.000	.000	11	.000	.000	11	.000	.000
11	.000	.000	12	.000	.000	12	.000	.000	12	.000	.000
12	.000	.000	13	.000	.000	13	.000	.000	13	.000	.000
13	.000	.000	14	.000	.000	14	.000	.000	14	.000	.000
14	.000	.000	15	.000	.000	15	.000	.000	15	.000	.000
15	.000	.000	16	.000	.000	16	.000	.000	16	.000	.000
16	.000	.000	17	.000	.000	17	.000	.000	17	.000	.000
17	.000	.000	18	.000	.000	18	.000	.000	18	.000	.000
18	.000	.000	19	.000	.000	19	.000	.000	19	.000	.000
19	.000	.000	20	.000	.000	20	.000	.000	20	.000	.000
20	.000	.000	21	.000	.000	21	.000	.000	21	.000	.000
21	.000	.000	22	.000	.000	22	.000	.000	22	.000	.000
22	.000	.000	23	.000	.000	23	.000	.000	23	.000	.000
23	.000	.000	24	.000	.000	24	.000	.000	24	.000	.000
24	.000	.000	25	.000	.000	25	.000	.000	25	.000	.000
25	.000	.000	26	.000	.000	26	.000	.000	26	.000	.000
26	.000	.000	27	.000	.000	27	.000	.000	27	.000	.000
27	.000	.000	28	.000	.000	28	.000	.000	28	.000	.000
28	.000	.000	29	.000	.000	29	.000	.000	29	.000	.000
29	.000	.000	30	.000	.000	30	.000	.000	30	.000	.000
30	.000	.000	31	.000	.000	31	.000	.000	31	.000	.000
31	.000	.000	32	.000	.000	32	.000	.000	32	.000	.000
32	.000	.000	33	.000	.000	33	.000	.000	33	.000	.000
33	.000	.000	34	.000	.000	34	.000	.000	34	.000	.000
34	.000	.000	35	.000	.000	35	.000	.000	35	.000	.000
35	.000	.000	36	.000	.000	36	.000	.000	36	.000	.000
36	.000	.000	37	.000	.000	37	.000	.000	37	.000	.000
37	.000	.000	38	.000	.000	38	.000	.000	38	.000	.000
38	.000	.000	39	.000	.000	39	.000	.000	39	.000	.000
39	.000	.000	40	.000	.000	40	.000	.000	40	.000	.000
40	.000	.000	41	.000	.000	41	.000	.000	41	.000	.000
41	.000	.000	42	.000	.000	42	.000	.000	42	.000	.000
42	.000	.000	43	.000	.000	43	.000	.000	43	.000	.000
43	.000	.000	44	.000	.000	44	.000	.000	44	.000	.000
44	.000	.000	45	.000	.000	45	.000	.000	45	.000	.000
45	.000	.000	46	.000	.000	46	.000	.000	46	.000	.000
46	.000	.000	47	.000	.000	47	.000	.000	47	.000	.000
47	.000	.000	48	.000	.000	48	.000	.000	48	.000	.000
48	.000	.000	49	.000	.000	49	.000	.000	49	.000	.000
49	.000	.000	50	.000	.000	50	.000	.000	50	.000	.000
50	.000	.000	51	.000	.000	51	.000	.000	51	.000	.000
51	.000	.000	52	.000	.000	52	.000	.000	52	.000	.000
52	.000	.000	53	.000	.000	53	.000	.000	53	.000	.000
53	.000	.000	54	.000	.000	54	.000	.000	54	.000	.000
54	.000	.000	55	.000	.000	55	.000	.000	55	.000	.000
55	.000	.000	56	.000	.000	56	.000	.000	56	.000	.000
56	.000	.000	57	.000	.000	57	.000	.000	57	.000	.000
57	.000	.000	58	.000	.000	58	.000	.000	58	.000	.000
58	.000	.000	59	.000	.000	59	.000	.000	59	.000	.000
59	.000	.000	60	.000	.000	60	.000	.000	60	.000	.000
60	.000	.000	61	.000	.000	61	.000	.000	61	.000	.000
61	.000	.000	62	.000	.000	62	.000	.000	62	.000	.000
62	.000	.000	63	.000	.000	63	.000	.000	63	.000	.000
63	.000	.000	64	.000	.000	64	.000	.000	64	.000	.000
64	.000	.000	65	.000	.000	65	.000	.000	65	.000	.000
65	.000	.000	66	.000	.000	66	.000	.000	66	.000	.000
66	.000	.000	67	.000	.000	67	.000	.000	67	.000	.000
67	.000	.000	68	.000	.000	68	.000	.000	68	.000	.000
68	.000	.000	69	.000	.000	69	.000	.000	69	.000	.000
69	.000	.000	70	.000	.000	70	.000	.000	70	.000	.000
70	.000	.000	71	.000	.000	71	.000	.000	71	.000	.000
71	.000	.000	72	.000	.000	72	.000	.000	72	.000	.000
72	.000	.000	73	.000	.000	73	.000	.000	73	.000	.000
73	.000	.000	74	.000	.000	74	.000	.000	74	.000	.000
74	.000	.000	75	.000	.000	75	.000	.000	75	.000	.000
75	.000	.000	76	.000	.000	76	.000	.000	76	.000	.000
76	.000	.000	77	.000	.000	77	.000	.000	77	.000	.000
77	.000	.000	78	.000	.000	78	.000	.000	78	.000	.000
78	.000	.000	79	.000	.000	79	.000	.000	79	.000	.000
79	.000	.000	80	.000	.000	80	.000	.000	80	.000	.000
80	.000	.000	81	.000	.000	81	.000	.000	81	.000	.000
81	.000	.000	82	.000	.000	82	.000	.000	82	.000	.000
82	.000	.000	83	.000	.000	83	.000	.000	83	.000	.000
83	.000	.000	84	.000	.000	84	.000	.000	84	.000	.000
84	.000	.000	85	.000	.000	85	.000	.000	85	.000	.000
85	.000	.000	86	.000	.000	86	.000	.000	86	.000	.000
86	.000	.000	87	.000	.000	87	.000	.000	87	.000	.000
87	.000	.000	88	.000	.000	88	.000	.000	88	.000	.000
88	.000	.000	89	.000	.000	89	.000	.000	89	.000	.000
89	.000	.000	90	.000	.000	90	.000	.000	90	.000	.000
90	.000	.000	91	.000	.000	91	.000	.000	91	.000	.000
91	.000	.000	92	.000	.000	92	.000	.000	92	.000	.000
92	.000	.000	93	.000	.000	93	.000	.000	93	.000	.000
93	.000	.000	94	.000	.000	94	.000	.000	94	.000	.000
94	.000	.000	95	.000	.000	95	.000	.000	95	.000	.000
95	.000	.000	96	.000	.000	96	.000	.000	96	.000	.000
96	.000	.000	97	.000	.000	97	.000	.000	97	.000	.000
97	.000	.000	98	.000	.000	98	.000	.000	98	.000	.000
98	.000	.000	99	.000	.000	99	.000	.000	99	.000	.000
99	.000	.000	100	.000	.000	100	.000	.000	100	.000	.000

X=700  
SUCTION

X=700  
SUCTION



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 50 ALPHA-MCL = 2.0 POP RUN PT 19.11  
 SURF 10 ALPHA-MAP = 2.5 Q-CORR = 19.11  
 POINT 10 SIGMA = 2.5 V-REF = 19.11  
 COMPUTED FREQUENCY = 19.10. K = .1505

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
SECTION	N	CP-MAG	PHI	N	CP-MAG	PHI
1	12.305	162.83				
2	1.459	22.88				
3	.519	304.69				
4	.313	18.03				
5	.043	225.69				
6	.042	147.24				
7	.015	224.81				
8	.015	131.87				
9	.047	214.76				
10	.045	305.73				
SECTION	N	CP-MAG	PHI	N	CP-MAG	PHI
1	12.043	162.92				
2	1.459	22.88				
3	.519	304.69				
4	.313	18.03				
5	.043	225.69				
6	.042	147.24				
7	.015	224.81				
8	.015	131.87				
9	.047	214.76				
10	.045	305.73				
SECTION	N	CP-MAG	PHI	N	CP-MAG	PHI
1	10.136	152.54				
2	.659	225.69				
3	.059	147.24				
4	.019	154.85				
5	.019	131.87				
6	.019	214.76				
7	.019	305.73				
8	.019	152.54				
9	.019	225.69				
10	.019	147.24				
SECTION	N	CP-MAG	PHI	N	CP-MAG	PHI
1	12.043	162.92				
2	1.459	22.88				
3	.519	304.69				
4	.313	18.03				
5	.043	225.69				
6	.042	147.24				
7	.015	224.81				
8	.015	131.87				
9	.047	214.76				
10	.045	305.73				
SECTION	N	CP-MAG	PHI	N	CP-MAG	PHI
1	12.043	162.92				
2	1.459	22.88				
3	.519	304.69				
4	.313	18.03				
5	.043	225.69				
6	.042	147.24				
7	.015	224.81				
8	.015	131.87				
9	.047	214.76				
10	.045	305.73				

SECTION



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FILE          POP SUN PT  10.11
RUN          C-COMP = .233
POINT       V-REF = 199.42
           K = .1535
           ALPHA-MIL = 2.9
           ALPHA-GR = .3
           SIGMA = 1.
           COMPUTED FREQUENCY = 19.13.
           C UNPAIRED PHASE ANGLE

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FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN

SLADE NO.

LADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	29.3	158.00	1	29.3	177.76	1	38.3	175.67	1	37.2	171.9	1	47.4	182.0	1	50.2	189.1
2	4	50.7	178.99	4	59.3	256.07	4	39.3	248.14	4	37.7	187.3	4	47.6	192.0	4	50.2	195.4
3	5	54.7	175.76	5	61.4	266.97	5	43.0	250.77	5	41.1	193.3	5	47.7	197.0	5	50.2	200.2
4	1	11.6	127.39	1	16.6	137.47	1	11.4	125.02	1	12.2	127.2	1	17.0	132.5	1	19.1	136.7
5	10	10.9	125.96	10	17.7	147.79	10	10.2	122.9	10	10.6	125.8	10	17.5	128.0	10	19.1	132.4
6	4	14.9	135.86	4	21.0	151.07	4	12.9	126.7	4	13.2	128.5	4	17.5	132.8	4	19.1	136.7
7	9	14.1	134.22	9	21.4	150.45	9	12.9	126.9	9	13.2	128.5	9	17.5	132.8	9	19.1	136.7
8	1	11.8	126.49	1	16.4	136.58	1	12.9	126.7	1	12.2	127.2	1	17.0	132.5	1	19.1	136.7
9	10	11.8	126.49	10	16.4	136.58	10	12.9	126.7	10	12.2	127.2	10	17.0	132.5	10	19.1	136.7

PRESIDENT

RESURCE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	8.04	33.00	1	5.96	33.88	1	7.55	34.91	1	5.25	35.76
2	2	4.34	31.02	2	3.69	31.49	2	4.99	32.51	2	3.78	33.00
3	3	3.47	29.14	3	3.14	29.61	3	4.17	30.51	3	3.03	31.76
4	4	2.76	27.46	4	2.36	27.98	4	3.76	28.89	4	2.93	30.00
5	5	2.35	26.03	5	2.07	26.55	5	3.32	27.69	5	2.60	28.76
6	6	2.05	24.81	6	1.82	25.32	6	3.03	26.51	6	2.37	27.50
7	7	1.83	23.75	7	1.62	24.27	7	2.75	25.49	7	2.16	26.41
8	8	1.67	22.81	8	1.48	23.34	8	2.55	24.51	8	2.00	25.49
9	9	1.55	21.97	9	1.38	22.50	9	2.38	23.66	9	1.86	24.61
10	10	1.45	21.22	10	1.29	21.74	10	2.25	22.91	10	1.76	23.88

\*\*\* ALL PRESSURES, PER RALIAN: \*\*\*

CAP FRACTION

[illegible]

MODE 2 --> LEADING EDGE PLANE DATA, WALL STATIONS

FILE 193 ALPHA-MCL = 2.0 POP RUN-PT 12.03  
 POINT 12 ALPHA-BAR = 0.9 O-COMP = 12358  
 SIGMA = 45. V-REF = 199.51  
 COMPUTED FREQUENCY = 9.16, K = .0721

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

XZ=005  
 SUCTION

3	4	5	6	7	8
N	N	N	N	N	N
CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
1 -6.001	16.042	6.762	1-12.036	-4.434	-6.829
2 .243	.096	.110	2 .601	.741	.479
3 -.762	.006	.063	3 .624	.113	.314
4 -.147	-.202	.063	4 .513	.146	.570
5 .358	.796	.060	5 .060	.081	-.008
6 .645	.868	.585	6 .078	.634	.513
7 .151	-.422	-.030	7 .025	-.136	-.024
8 .177	-.284	-.172	8 .046	-.209	-.093
9 .165	.105	.002	9 .062	.084	.109
10 -.097	.033	.057	10 .092	.101	.110

XZ=012  
 SUCTION

1	2	3	4	5	6	7	8	9	10
N	N	N	N	N	N	N	N	N	N
CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
1 9.731	17.137	6.762	1-12.036	-4.434	-6.829	1 13.168	-6.829		
2 .504	.676	.110	2 .601	.741	.479	2 1.062	.479		
3 .607	.181	.063	3 .624	.113	.314	3 .069	.314		
4 .555	.159	.063	4 .513	.146	.570	4 .113	.570		
5 .070	.321	.060	5 .060	.081	-.008	5 .117	-.008		
6 .957	.349	.585	6 .078	.634	.513	6 .039	.513		
7 .041	.146	-.030	7 .025	-.136	-.024	7 .008	-.024		
8 .114	.105	-.172	8 .046	-.209	-.093	8 .000	-.093		
9 .151	.054	.002	9 .062	.084	.109	9 .000	.109		
10 .115	.014	.057	10 .092	.101	.110	10 .132	.110		

XZ=030  
 SUCTION

1	2	3	4	5	6	7	8	9	10
N	N	N	N	N	N	N	N	N	N
CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
1 -1.150	7.369	2.369	1-12.036	-4.434	-6.829	1 13.168	-6.829		
2 -.285	.566	.566	2 .601	.741	.479	2 1.062	.479		
3 .699	.011	.011	3 .624	.113	.314	3 .069	.314		
4 .612	.078	.078	4 .513	.146	.570	4 .113	.570		
5 .049	.115	.115	5 .060	.081	-.008	5 .117	-.008		
6 .675	.487	.487	6 .078	.634	.513	6 .039	.513		
7 .105	-.124	-.124	7 .025	-.136	-.024	7 .008	-.024		
8 .035	-.013	-.013	8 .046	-.209	-.093	8 .000	-.093		
9 .012	.012	.012	9 .062	.084	.109	9 .000	.109		
10 .060	.012	.012	10 .092	.101	.110	10 .132	.110		

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FILE      193      ALPHA-MCL = 2.0      PCP RUN.PT  12.03
RUN       12      ALPHA-BAR = .5        Q-COMP     12.3358
POINT     2      SIGMA = .45            V-REF      196.51
COMPUTED  FREQUENCY = 9.16,           W = .0721

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

SUCYION  
X=062

SUCYION  
X=062

X=.012  
PRESSURE

X=.012  
PRESSURE

\*\*\* HALL PRESSURES, PER RADIAN \*\*\*

WALL NO.  
GAP FRACTION

WALL NO.  
GAP FRACTION

459

MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 193 ALPHA-MCL = 2.0 PUP RUN PT 12.03  
 RUN 12 ALPHA-BAR = .5 O-COMP = .32358  
 POINT 2 SIGMA = .45 V-REF = 199.51  
 COMPUTED FREQUENCY = 9.16, K = .0721

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\* BLADE PRESSURES, PER RADIAN \*\*

BLADE 23°

X=0.025  
 SUCTION

9

7

6

5

3

N	CP-MAG	PHI
1	17.128	200.51
2	.262	201.57
3	.762	89.56
4	.286	233.77
5	.873	155.77
6	1.062	233.28
7	.477	198.52
8	.335	301.92
9	.195	237.50
10	.102	341.25

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	11.935	189.61	1	19.573	202.67	1	14.200	196.56	1	12.827	200.22	1	12.110	203.58	1	19.830	197.58
2	.609	34.29	2	1.268	329.59	2	.883	229.52	2	.842	118.45	2	.853	45.02	2	1.149	207.58
3	.642	115.96	3	1.859	264.11	3	.651	144.71	3	.634	10.26	3	.521	226.15	3	.569	348.79
4	.643	184.87	4	.685	13.42	4	.606	185.93	4	.534	15.88	4	.521	212.65	4	.745	229.95
5	.215	296.09	5	.669	298.62	5	.061	325.23	5	.100	53.08	5	.704	329.08	5	.114	229.22
6	.952	118.70	6	.763	207.29	6	.934	308.65	6	.928	280.20	6	.054	139.38	6	.661	320.90
7	.137	62.41	7	.167	330.51	7	.071	290.50	7	.139	257.71	7	.054	161.17	7	.093	327.12
8	.165	225.58	8	.089	232.41	8	.179	254.45	8	.214	126.56	8	.168	268.60	8	.093	327.12
9	.104	103.76	9	.061	166.65	9	.028	220.59	9	.104	126.56	9	.136	131.56	9	.119	339.32
10	.065	282.45	10	.125	166.65	10	.092	136.08	10	.137	47.96	10	.180	344.51	10	.172	129.78

X=0.030  
 SUCTION

N	CP-MAG	PHI
1	7.458	188.87
2	.634	296.74
3	.699	270.94
4	.617	277.23
5	.425	201.70
6	.829	216.01
7	.112	250.25
8	.130	252.92
9	.018	44.49
10	.064	201.79

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 193 ALPHA-MCL = 2.0 PDP RUN-PI 12.03  
 RUN 12 ALPHA-BAR = 32358  
 POINT 2 SIGMA = 199.51  
 COMPUTED FREQUENCY = 9.16, K = .0721

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9						
X=062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	7.097	178.91	181.12	5.601	182.14	192.55	1	4.666	122.31	1	7.700	201.22
2	7.683	30.78	298.49	7.322	216.04	122.31	2	4.953	122.31	2	7.700	201.22
3	7.643	73.65	274.12	7.335	190.04	133.97	3	7.754	133.97	3	7.700	201.22
4	7.814	185.16	7.29	7.335	190.04	133.97	4	7.754	133.97	4	7.700	201.22
5	1.147	122.12	197.84	7.335	190.04	133.97	5	7.754	133.97	5	7.700	201.22
6	1.050	120.96	177.84	7.335	190.04	133.97	6	7.754	133.97	6	7.700	201.22
7	1.062	120.96	177.84	7.335	190.04	133.97	7	7.754	133.97	7	7.700	201.22
8	1.062	120.96	177.84	7.335	190.04	133.97	8	7.754	133.97	8	7.700	201.22
9	1.062	120.96	177.84	7.335	190.04	133.97	9	7.754	133.97	9	7.700	201.22
10	1.062	120.96	177.84	7.335	190.04	133.97	10	7.754	133.97	10	7.700	201.22
X=012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	6.830	42.87	39.67	12.232	39.67	29.41	1	14.885	12.655	1	9.338	7.07
2	1.241	22.78	246.12	9.022	246.12	112.35	2	9.703	12.655	2	9.338	7.07
3	1.577	26.37	191.06	9.022	246.12	112.35	3	9.703	12.655	3	9.338	7.07
4	1.577	184.86	191.06	9.022	246.12	112.35	4	9.703	12.655	4	9.338	7.07
5	1.192	181.63	282.77	9.022	246.12	112.35	5	9.703	12.655	5	9.338	7.07
6	1.170	123.99	307.32	9.022	246.12	112.35	6	9.703	12.655	6	9.338	7.07
7	1.349	223.89	262.62	9.022	246.12	112.35	7	9.703	12.655	7	9.338	7.07
8	1.263	246.92	262.62	9.022	246.12	112.35	8	9.703	12.655	8	9.338	7.07
9	1.063	255.95	262.62	9.022	246.12	112.35	9	9.703	12.655	9	9.338	7.07
10	1.048	138.35	90.14	9.022	246.12	112.35	10	9.703	12.655	10	9.338	7.07

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

GAP FRACTION	WALL NO.	3	4	5	6	7	9					
		CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	6.397	194.73	1	4.055	120.03	1	3.181	67.88	1	3.181	67.88
2	2	6.397	194.73	1	4.055	120.03	1	3.181	67.88	2	3.181	67.88
3	3	6.397	194.73	1	4.055	120.03	1	3.181	67.88	3	3.181	67.88
4	4	6.397	194.73	1	4.055	120.03	1	3.181	67.88	4	3.181	67.88
5	5	6.397	194.73	1	4.055	120.03	1	3.181	67.88	5	3.181	67.88
6	6	6.397	194.73	1	4.055	120.03	1	3.181	67.88	6	3.181	67.88
7	7	6.397	194.73	1	4.055	120.03	1	3.181	67.88	7	3.181	67.88
8	8	6.397	194.73	1	4.055	120.03	1	3.181	67.88	8	3.181	67.88
9	9	6.397	194.73	1	4.055	120.03	1	3.181	67.88	9	3.181	67.88
10	10	6.397	194.73	1	4.055	120.03	1	3.181	67.88	10	3.181	67.88

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FILE 195      ALPHA-MCL = 2.0      PCP BUN.PT  12.05
PUN 12        ALPHA-BAB = .5        C-CMP =  324.24
POINT "        SIGMA = .5          Y-EFF = 195.72
                                     Y = .1224
COMPUTED FREQUENCY = 15.56,
FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER PARTIAL ***

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BLADE NO.

NO 1375  
500-EX

6



5

10

4

N	CREAL	CPIMAG
1	-4.858	15.358
2	.473	-7.411
3	-2.919	.564
4	.484	15.151
5	.440	15.198
6	-2.296	15.303
7	.440	15.151
8	-1.059	-2.116
9	-2.079	0.091
10	-2.079	0.091

2101012

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	7.208	16.633	1	-5.864	16.633	1	11.843	5.952	1	-11.843	5.952	1	-11.930	-0.387	1	-659	-11.650	1	12.050	-8.539
2	2.232	-7.151	2	-1.855	-7.151	2	-275	-1.232	2	275	-1.232	2	-271	-207	2	169	-1.190	2	1.190	-0.741
3	-2.217	1.203	3	1.521	1.203	3	-059	0.071	3	059	0.071	3	-009	0.069	3	-053	0.035	3	-0.035	0.003
4	-2.237	-0.031	4	-2.043	-0.031	4	-029	-0.011	4	029	-0.011	4	-001	-0.070	4	-053	0.031	4	0.031	-0.120
5	-1.003	0.015	5	-2.043	0.015	5	-022	0.011	5	022	0.011	5	-012	-0.070	5	-053	-0.003	5	-0.003	0.069
6	0.023	-0.024	6	-0.023	-0.024	6	-022	-0.024	6	022	-0.024	6	-012	-0.068	6	-041	0.010	6	0.010	-0.103
7	0.033	-0.024	7	-0.023	-0.024	7	-024	-0.024	7	024	-0.024	7	-012	-0.068	7	-041	-0.003	7	-0.003	0.069
8	0.033	-0.024	8	-0.023	-0.024	8	-024	-0.024	8	024	-0.024	8	-012	-0.068	8	-041	0.010	8	0.010	-0.103
9	0.033	-0.024	9	-0.023	-0.024	9	-024	-0.024	9	024	-0.024	9	-012	-0.068	9	-041	-0.003	9	-0.003	0.069
10	0.033	-0.024	10	-0.023	-0.024	10	-024	-0.024	10	024	-0.024	10	-012	-0.068	10	-041	0.010	10	0.010	-0.103

WJL:JMS  
050-21

N	CPREAL	CPIMAG
1	-1.147	6.329
2	-.162	-.056
3	-.110	-.096
4	-.109	-.092
5	-.031	-.099
6	-.019	-.070
7	-.065	-.071
8	-.001	-.051
9	-.037	-.014
10	-.001	-.013

# GC-1 PERIODICITY TEST CASE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 195 ALPHA-MCL = 2.9 PSP RUN:PT 12.05  
 PUN 12 ALPHA-BAR = 45. C-COMP = 32824  
 POINT 14 SIGMA = 45. V-REF = 199.72  
 COMPUTED FREQUENCY = 15.56, M = .1224

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
SECTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	4.540	3.510	5.232	1	-4.327	2.539	1	-4.982	-2.088	1	-1.876	-5.743	1	5.696	-4.701	1	2.13	3.39
2	-2.284	.018	-1.026	2	-2.556	-0.470	2	-2.066	-0.669	2	-2.242	-0.333	2	-2.113	-.021	2	-0.033	-.306
3	-1.077	.147	-0.931	3	-1.175	-0.676	3	-2.000	-.194	3	-0.722	-.106	3	-0.033	-.083	3	-0.093	-.083
4	-2.031	-0.037	-1.021	4	-1.119	-0.708	4	-1.033	-.081	4	-1.133	-.063	4	-0.073	-.019	4	-0.045	-.053
5	-1.119	.048	-0.924	5	-0.959	-0.271	5	-0.941	-.041	5	-0.050	-.050	5	-0.045	-.053	5	-0.001	-.043
6	-0.808	.044	-0.823	6	-0.808	-0.013	6	-0.838	-.022	6	-0.005	-.061	6	-0.041	-.053	6	-0.058	-.043
7	-1.411	-0.233	-0.845	7	-0.861	-0.093	7	-0.838	-.084	7	-0.004	-.061	7	-0.041	-.053	7	-0.058	-.043
8	-0.230	-0.039	-0.848	8	-0.805	-0.074	8	-0.810	-.065	8	-0.004	-.061	8	-0.058	-.043	8	-0.058	-.043
9	-0.055	-0.021	-0.833	9	-0.030	-0.007	9	-0.014	-.018	9	-0.033	-.100	9	-0.058	-.043	9	-0.058	-.043
10	.027	.036	-0.000	10	-0.036	-0.005	10	-0.063	-.003	10	-0.134	-.028	10	-0.133	-.026	10	-0.133	-.026
SECTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-2.134	-8.418	11.543	1	10.226	-3.424	1	11.543	4.114	1	5.912	7.208	1	-8.189	3.700	1	-8.189	3.700
2	-1.154	-0.023	-0.172	2	-4.464	-0.193	2	-4.440	-.185	2	-0.969	-0.311	2	-0.004	-.022	2	-0.004	-.022
3	-0.076	-0.046	-0.440	3	-1.622	-0.373	3	-1.443	-.137	3	-0.741	-0.226	3	-0.219	-.081	3	-0.219	-.081
4	-0.076	-0.046	-0.440	4	-1.622	-0.373	4	-1.443	-.137	4	-0.741	-0.226	4	-0.219	-.081	4	-0.219	-.081
5	-0.076	-0.046	-0.440	5	-1.622	-0.373	5	-1.443	-.137	5	-0.741	-0.226	5	-0.219	-.081	5	-0.219	-.081
6	-0.076	-0.046	-0.440	6	-1.622	-0.373	6	-1.443	-.137	6	-0.741	-0.226	6	-0.219	-.081	6	-0.219	-.081
7	-0.076	-0.046	-0.440	7	-1.622	-0.373	7	-1.443	-.137	7	-0.741	-0.226	7	-0.219	-.081	7	-0.219	-.081
8	-0.076	-0.046	-0.440	8	-1.622	-0.373	8	-1.443	-.137	8	-0.741	-0.226	8	-0.219	-.081	8	-0.219	-.081
9	-0.076	-0.046	-0.440	9	-1.622	-0.373	9	-1.443	-.137	9	-0.741	-0.226	9	-0.219	-.081	9	-0.219	-.081
10	-0.076	-0.046	-0.440	10	-1.622	-0.373	10	-1.443	-.137	10	-0.741	-0.226	10	-0.219	-.081	10	-0.219	-.081

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	W3	W4	W5	W6	W7	W9									
SECTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-6.674	-2.328	-1.975	1	-5.045	-1.975	1	-2.527	-1.204	1	-2.527	-1.204	1	-2.527	-1.204
2	-0.429	-0.014	-0.017	2	-0.429	-0.014	2	-0.429	-0.014	2	-0.429	-0.014	2	-0.429	-0.014
3	-0.429	-0.014	-0.017	3	-0.429	-0.014	3	-0.429	-0.014	3	-0.429	-0.014	3	-0.429	-0.014
4	-0.429	-0.014	-0.017	4	-0.429	-0.014	4	-0.429	-0.014	4	-0.429	-0.014	4	-0.429	-0.014
5	-0.429	-0.014	-0.017	5	-0.429	-0.014	5	-0.429	-0.014	5	-0.429	-0.014	5	-0.429	-0.014
6	-0.429	-0.014	-0.017	6	-0.429	-0.014	6	-0.429	-0.014	6	-0.429	-0.014	6	-0.429	-0.014
7	-0.429	-0.014	-0.017	7	-0.429	-0.014	7	-0.429	-0.014	7	-0.429	-0.014	7	-0.429	-0.014
8	-0.429	-0.014	-0.017	8	-0.429	-0.014	8	-0.429	-0.014	8	-0.429	-0.014	8	-0.429	-0.014
9	-0.429	-0.014	-0.017	9	-0.429	-0.014	9	-0.429	-0.014	9	-0.429	-0.014	9	-0.429	-0.014
10	-0.429	-0.014	-0.017	10	-0.429	-0.014	10	-0.429	-0.014	10	-0.429	-0.014	10	-0.429	-0.014

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 195 ALPHA-MCL = 2.9 PUP PUM.PI 12.05  
 PUN 12 ALPHA-BAR = 4.5 Q-COMP = .32424  
 POINT 14 SIGMA = 4.5 V-REF = 199.72  
 FOURIER COEFFICIENTS, AMPLITUDE = 15.56, K = .1224  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE.005  
 SUCTION

N	CP-MAG	PHI
1	16.204	197.45
2	.879	122.59
3	1.078	58.46
4	.851	169.78
5	.923	112.29
6	.535	214.73
7	.334	117.37
8	.242	243.33
9	.079	263.96
10	.044	283.23

XE.012  
 SUCTION

N	CP-MAG	PHI
1	10.944	183.23
2	.250	162.92
3	.523	162.92
4	.229	18.61
5	.297	280.59
6	.075	150.17
7	.181	151.56
8	.033	275.33
9	.049	172.22
10	.030	270.43

XE.030  
 SUCTION

N	CP-MAG	PHI
1	.427	190.28
2	.190	17.19
3	.146	130.95
4	.142	220.19
5	.104	197.49
6	.029	311.51
7	.095	137.67
8	.051	268.57
9	.039	249.41
10	.013	293.51

9

7

6

5

N	CP-MAG	PHI
1	12.589	203.29
2	.188	74.56
3	.508	180.11
4	.131	40.74
5	.187	350.02
6	.056	258.99
7	.087	247.64
8	.190	286.71
9	.034	231.61
10	.154	71.10

N	CP-MAG	PHI
1	15.824	191.42
2	.393	262.83
3	.589	180.23
4	.089	167.78
5	.148	342.31
6	.118	61.93
7	.112	247.71
8	.036	287.70
9	.034	180.78
10	.154	269.88



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 195 ALPHA-MCL = 2.0 POP RUN-PT 12.05  
 RUN 112 ALPHA-BA = 4.5 Q-COMP = 32.24  
 POINT SIGMA = 45.0 V-REF = 199.72  
 COMPUTED FREQUENCY = 15.56, K = .1224

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
X=062 SUCTION	1	5.739	172.71	1	5.255	185.37	1	5.043	194.10	1	5.402	202.74	1	6.041	206.91	1	8.182	189.93
	2	.284	186.32	2	.253	195.77	2	.259	278.89	2	.218	198.59	2	.244	197.71	2	.214	264.26
	3	.341	199.51	3	.176	122.29	3	.191	338.30	3	.136	121.73	3	.308	121.45	3	.457	177.27
	4	.221	223.21	4	.176	122.40	4	.161	338.30	4	.131	218.36	4	.155	141.18	4	.097	177.27
	5	.128	337.12	5	.114	206.86	5	.065	20.59	5	.062	201.54	5	.147	340.16	5	.084	321.71
	6	.045	175.06	6	.046	200.92	6	.015	31.70	6	.042	154.98	6	.050	322.43	6	.076	221.78
	7	.164	243.31	7	.051	232.32	7	.011	192.05	7	.070	245.98	7	.081	262.78	7	.118	222.50
	8	.069	155.84	8	.033	259.60	8	.034	266.37	8	.023	307.50	8	.105	267.44	8	.053	268.51
	9	.044	323.37	9	.005	1.53	9	.036	277.86	9	.063	162.70	9	.137	243.16	9	.072	184.70
	10			10			10			10			10			10	.136	281.02
X=012 PRESSURE	1	6.585	30.78	1	10.841	26.25	1	10.841	26.25	1	12.254	19.62	1	9.323	5.64	1	8.986	20.68
	2	.155	98.88	2	.455	282.60	2	.455	282.60	2	.253	227.23	2	.362	123.35	2	.443	294.18
	3	.485	320.88	3	.168	15.06	3	.168	15.06	3	.441	275.51	3	.775	28.08	3	.220	129.25
	4	.085	26.40	4	.112	7.92	4	.112	7.92	4	.198	223.67	4	.045	53.70	4	.123	141.03
	5	.032	95.80	5	.054	91.47	5	.054	91.47	5	.155	141.13	5	.023	271.03	5	.175	228.79
	6	.026	114.11	6	.058	254.28	6	.058	254.28	6	.062	332.09	6	.120	206.00	6	.046	166.79
	7	.130	204.66	7	.041	183.37	7	.041	183.37	7	.062	295.11	7	.053	330.41	7	.116	173.38
	8	.055	187.42	8	.041	183.37	8	.041	183.37	8	.036	213.50	8	.053	267.41	8	.094	282.04
	9	.019	26.02	9	.028	256.63	9	.028	256.63	9	.056	229.12	9	.086	161.85	9	.006	282.04
	10			10			10			10			10			10	.119	312.66

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3			W4			W5			W7			W8			W9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	7	.246	202.96	1	5.419	201.38	1	2.789	205.49	1	.209	110.64	1	.717	14.63	1	.874	226.09
	2	.281	275.61	2	.339	233.44	2	.289	181.58	2	.318	201.46	2	.319	205.03	2	.343	226.09
	3	.149	150.00	3	.163	145.50	3	.607	170.83	3	.518	201.46	3	.558	206.73	3	.470	201.59
	4	.145	201.00	4	.121	177.02	4	.208	208.04	4	.236	222.31	4	.191	226.84	4	.201	223.52
	5	.120	222.33	5	.032	124.98	5	.381	270.22	5	.046	192.97	5	.176	176.98	5	.064	165.95
	6	.110	242.05	6	.112	237.01	6	.135	240.19	6	.150	245.12	6	.126	261.72	6	.100	194.16
	7	.107	249.02	7	.112	237.01	7	.080	244.14	7	.089	277.62	7	.148	267.92	7	.095	274.16
	8	.046	141.84	8	.069	189.83	8	.108	184.91	8	.025	202.93	8	.027	15.24	8	.020	325.25
	9			9			9			9			9			9	.097	198.15
	10			10			10			10			10			10		

MODE 2 --- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 197 ALPHA-MCL = 2.0 PUP RUN.PT 12.07  
 PUN 12 ALPHA-BAR = .5 C-COMP = .32135  
 POINT 16 SIGMA = 45. V-REF = 192.82  
 FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PEP RADIAN \*\*\*

BLADE NO.

XZ=005  
 SUCTION

9

7

6

5

4

3

N CPREAL CPI MAG  
 1 -4.851 16.302  
 2 -.261 -.206  
 3 -.611 .196  
 4 -.603 .586  
 5 .257 -.920  
 6 .297 -.359  
 7 .091 .016  
 8 -.091 .025  
 9 -.082 -.003  
 10 -.075 -.009

XZ=012  
 SUCTION

N CPREAL CPI MAG N CPREAL CPI MAG N CPREAL CPI MAG N CPREAL CPI MAG  
 1 6.303 8.806 1 2.323 4.567 1 11.329 11.748 1 11.329 11.748  
 2 -.357 -.357 2 -.357 -.357 2 -.357 -.357 2 -.357 -.357  
 3 -.123 -.123 3 -.123 -.123 3 -.123 -.123 3 -.123 -.123  
 4 -.033 -.033 4 -.033 -.033 4 -.033 -.033 4 -.033 -.033  
 5 -.021 -.021 5 -.021 -.021 5 -.021 -.021 5 -.021 -.021  
 6 -.008 -.008 6 -.008 -.008 6 -.008 -.008 6 -.008 -.008  
 7 -.009 -.009 7 -.009 -.009 7 -.009 -.009 7 -.009 -.009  
 8 -.009 -.009 8 -.009 -.009 8 -.009 -.009 8 -.009 -.009  
 9 -.009 -.009 9 -.009 -.009 9 -.009 -.009 9 -.009 -.009  
 10 -.009 -.009 10 -.009 -.009 10 -.009 -.009 10 -.009 -.009

XZ=030  
 SUCTION

N CPREAL CPI MAG  
 1 -1.889 7.097  
 2 -.004 -.004  
 3 -.004 -.004  
 4 -.004 -.004  
 5 -.004 -.004  
 6 -.004 -.004  
 7 -.004 -.004  
 8 -.004 -.004  
 9 -.004 -.004  
 10 -.004 -.004

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 197 ALPHA-MCL = 2.0 POP RUN-PT 12.07  
 RUN 12 ALPHA-WAR = 4.5 O-CUMP = 12135  
 POINT SIGMA = 45 V-REF = 168.82  
 COMPUTED FREQUENCY = 19.21, K = .1518

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062						
SUCTION						
N	1	1	1	1	1	1
C PREAL	3.338	4.306	-5.704	-6.457	-5.416	5.226
CPI MAG	-.110	-.773	-.129	-.134	-.372	-.519
N	2	2	2	2	2	2
C PREAL	-.320	-.191	-.123	-.142	-.184	-.083
CPI MAG	-.103	-.041	-.093	-.039	-.128	-.097
N	3	3	3	3	3	3
C PREAL	-.183	-.009	-.051	-.022	-.092	-.042
CPI MAG	-.029	-.001	-.109	-.088	-.140	-.029
N	4	4	4	4	4	4
C PREAL	-.042	-.024	-.087	-.019	-.047	-.038
CPI MAG	-.084	-.062	-.041	-.034	-.027	-.038
N	5	5	5	5	5	5
C PREAL	-.049	-.017	-.002	-.001	-.034	-.035
CPI MAG	-.017	-.017	-.012	-.011	-.034	-.035
N	6	6	6	6	6	6
C PREAL	-.049	-.017	-.002	-.001	-.034	-.035
CPI MAG	-.017	-.017	-.012	-.011	-.034	-.035
N	7	7	7	7	7	7
C PREAL	-.049	-.017	-.002	-.001	-.034	-.035
CPI MAG	-.017	-.017	-.012	-.011	-.034	-.035
N	8	8	8	8	8	8
C PREAL	-.049	-.017	-.002	-.001	-.034	-.035
CPI MAG	-.017	-.017	-.012	-.011	-.034	-.035
N	9	9	9	9	9	9
C PREAL	-.049	-.017	-.002	-.001	-.034	-.035
CPI MAG	-.017	-.017	-.012	-.011	-.034	-.035
N	10	10	10	10	10	10
C PREAL	-.049	-.017	-.002	-.001	-.034	-.035
CPI MAG	-.017	-.017	-.012	-.011	-.034	-.035
N	11	11	11	11	11	11
C PREAL	-.049	-.017	-.002	-.001	-.034	-.035
CPI MAG	-.017	-.017	-.012	-.011	-.034	-.035
N	12	12	12	12	12	12
C PREAL	-.049	-.017	-.002	-.001	-.034	-.035
CPI MAG	-.017	-.017	-.012	-.011	-.034	-.035
N	13	13	13	13	13	13
C PREAL	-.049	-.017	-.002	-.001	-.034	-.035
CPI MAG	-.017	-.017	-.012	-.011	-.034	-.035
N	14	14	14	14	14	14
C PREAL	-.049	-.017	-.002	-.001	-.034	-.035
CPI MAG	-.017	-.017	-.012	-.011	-.034	-.035
N	15	15	15	15	15	15
C PREAL	-.049	-.017	-.002	-.001	-.034	-.035
CPI MAG	-.017	-.017	-.012	-.011	-.034	-.035
N	16	16	16	16	16	16
C PREAL	-.049	-.017	-.002	-.001	-.034	-.035
CPI MAG	-.017	-.017	-.012	-.011	-.034	-.035
N	17	17	17	17	17	17
C PREAL	-.049	-.017	-.002	-.001	-.034	-.035
CPI MAG	-.017	-.017	-.012	-.011	-.034	-.035
N	18	18	18	18	18	18
C PREAL	-.049	-.017	-.002	-.001	-.034	-.035
CPI MAG	-.017	-.017	-.012	-.011	-.034	-.035
N	19	19	19	19	19	19
C PREAL	-.049	-.017	-.002	-.001	-.034	-.035
CPI MAG	-.017	-.017	-.012	-.011	-.034	-.035
N	20	20	20	20	20	20
C PREAL	-.049	-.017	-.002	-.001	-.034	-.035
CPI MAG	-.017	-.017	-.012	-.011	-.034	-.035

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	W3	W4	W5	W7	W8	W9
GAP FRACTION						
N	1	1	1	1	1	1
C PREAL	-.556	-1.968	-1.135	-1.997	-1.598	-1.396
CPI MAG	-.126	-.495	-.090	-.162	-.226	-.148
N	2	2	2	2	2	2
C PREAL	-.091	-.215	-.071	-.053	-.097	-.052
CPI MAG	-.052	-.146	-.044	-.021	-.034	-.020
N	3	3	3	3	3	3
C PREAL	-.091	-.215	-.071	-.053	-.097	-.052
CPI MAG	-.052	-.146	-.044	-.021	-.034	-.020
N	4	4	4	4	4	4
C PREAL	-.091	-.215	-.071	-.053	-.097	-.052
CPI MAG	-.052	-.146	-.044	-.021	-.034	-.020
N	5	5	5	5	5	5
C PREAL	-.091	-.215	-.071	-.053	-.097	-.052
CPI MAG	-.052	-.146	-.044	-.021	-.034	-.020
N	6	6	6	6	6	6
C PREAL	-.091	-.215	-.071	-.053	-.097	-.052
CPI MAG	-.052	-.146	-.044	-.021	-.034	-.020
N	7	7	7	7	7	7
C PREAL	-.091	-.215	-.071	-.053	-.097	-.052
CPI MAG	-.052	-.146	-.044	-.021	-.034	-.020
N	8	8	8	8	8	8
C PREAL	-.091	-.215	-.071	-.053	-.097	-.052
CPI MAG	-.052	-.146	-.044	-.021	-.034	-.020
N	9	9	9	9	9	9
C PREAL	-.091	-.215	-.071	-.053	-.097	-.052
CPI MAG	-.052	-.146	-.044	-.021	-.034	-.020
N	10	10	10	10	10	10
C PREAL	-.091	-.215	-.071	-.053	-.097	-.052
CPI MAG	-.052	-.146	-.044	-.021	-.034	-.020

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 197 ALPHA-MCL = 2.0 POP PUN-PT 12.07  
RUN 12 ALPHA-BAR = .5 O-COMP = .32135  
POINT 16 SIGMA = .5 V-REF = 198.82  
COMPUTED FREQUENCY = 19.21, K = .1518

FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=.005  
SUCTION

9

7

6

5

3

N	CP-MAG	PHI
1	17.009	196.57
2	.333	38.35
3	.642	72.18
4	.841	135.84
5	.258	185.44
6	.303	168.71
7	.092	280.27
8	.095	164.39
9	.088	268.21
10	.076	6.99

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	10.670	188.76	1	18.011	199.06	1	14.374	196.69	1	13.979	196.68	1	13.228	197.69
2	.656	5.70	2	1.757	315.60	2	.326	198.62	2	.641	90.85	2	.705	129.01
3	.147	326.60	3	1.492	208.00	3	.214	332.52	3	.518	249.30	3	.258	179.01
4	.186	280.05	4	.509	239.03	4	.194	311.46	4	.167	108.70	4	.258	332.86
5	.078	340.81	5	.229	218.66	5	.154	308.10	5	.059	240.56	5	.242	226.51
6	.076	185.10	6	.249	274.13	6	.115	317.03	6	.131	109.48	6	.218	226.07
7	.074	185.10	7	.147	277.17	7	.094	315.99	7	.027	183.10	7	.110	235.61
8	.074	185.10	8	.135	277.17	8	.056	316.97	8	.079	273.16	8	.159	249.28
9	.074	185.10	9	.139	44.92	9	.030	66.58	9	.021	313.70	9	.121	318.76
10	.022	204.90	10	.139	44.92	10	.030	66.58	10	.021	313.70	10	.121	318.76

X=.030  
SUCTION

N	CP-MAG	PHI
1	7.344	194.90
2	.672	286.10
3	.449	180.49
4	.080	108.56
5	.078	212.75
6	.096	24.46
7	.059	279.05
8	.049	91.15
9	.049	213.54
10	.056	33.07

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 197 ALPHA-MCL = 2.0 POP RUN.PT 12.07  
 RUN 12 ALPHA-BAR = .5 O-COMP = .32135  
 POINT 6 SIGMA = 45. V-REF = 198.82  
 COMPUTED FREQUENCY = 19.21, K = .1518

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	5.448	187.22	1	6.368	193.95	1	6.684	193.59	1	6.620	192.73	1	6.392	192.92	1	6.844	184.78
	2	.781	8.10	2	.818	291.66	2	.661	191.29	2	.816	99.47	2	.912	124.07	2	.906	212.60
	3	.372	255.61	3	.482	179.43	3	.310	10.32	3	.444	251.43	3	.517	124.37	3	.388	312.14
	4	.181	338.23	4	.179	229.72	4	.094	121.63	4	.134	106.81	4	.174	155.08	4	.137	41.81
	5	.113	312.18	5	.064	229.72	5	.064	314.54	5	.048	242.63	5	.122	335.64	5	.042	76.66
	6	.029	272.82	6	.057	23.00	6	.109	94.54	6	.105	146.53	6	.174	335.64	6	.125	253.05
	7	.048	75.55	7	.109	283.92	7	.092	334.27	7	.043	27.29	7	.145	335.64	7	.057	135.27
	8	.035	124.26	8	.063	98.25	8	.075	106.08	8	.045	114.35	8	.152	203.95	8	.072	135.27
	9	.118	179.26	9	.059	291.88	9	.055	123.27	9	.022	238.85	9	.109	203.95	9	.064	237.17
	10	.052	289.47	10	.061	40.70	10	.012	352.55	10	.022	238.91	10	.046	313.69	10	.040	237.17
X=.012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	8.199	17.44	1	11.171	27.01	1	9.095	26.75	1	11.171	27.01	1	9.159	16.52	1	11.155	17.95
	2	1.101	352.05	2	.812	97.22	2	.587	32.67	2	.812	97.22	2	.893	16.52	2	1.000	200.35
	3	.650	313.08	3	.247	240.09	3	.220	77.56	3	.247	240.09	3	.405	256.96	3	.230	240.09
	4	.067	196.19	4	.022	76.76	4	.067	149.96	4	.022	76.76	4	.169	268.60	4	.116	212.40
	5	.136	101.38	5	.125	212.77	5	.055	13.46	5	.125	212.77	5	.097	168.69	5	.050	212.40
	6	.075	259.36	6	.082	132.04	6	.055	163.33	6	.082	132.04	6	.030	238.69	6	.028	157.01
	7	.153	221.32	7	.055	163.33	7	.041	262.37	7	.055	163.33	7	.030	238.69	7	.048	157.01
	8	.015	19.49	8	.041	262.37	8	.041	301.89	8	.041	262.37	8	.111	201.88	8	.078	150.17
	9	.093	342.15	9	.062	301.89	9	.062		9	.062	301.89	9	.058	171.85	9	.118	134.23
	10	.084	79.64	10			10			10			10	.097	146.66	10	.014	146.66

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938		
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	8.780	192.95	1	2.345	151.81	1	1.900	12.50
2	.662	184.00	2	1.597	100.21	2	1.175	103.31
3	.511	255.72	3	.022	254.49	3	.568	253.75
4	.213	112.84	4	1.199	116.49	4	.184	111.67
5	.155	250.53	5	.044	18.11	5	.034	120.27
6	.102	152.53	6	.093	182.77	6	.067	160.66
7	.019	162.87	7	.072	31.44	7	.067	160.66
8	.034	81.55	8	.072	125.99	8	.100	129.57
9	.079	266.90	9	.037	225.62	9	.088	129.57
10	.045	253.75	10	.037	232.83	10	.028	246.12

RESUME,PH

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 59 ALPHA-MCL = 2.0 PDP RUN.PT 13.10  
 RUN 13 ALPHA-BAR = .5 O-COMP = .32441  
 POINT 12 SIGMA = 90. V-REF = 199.75  
 COMPUTED FREQUENCY = 9.15, K = .0720

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XZ=005  
 SUCTION

9

7

6

5

4

N CPREAL CPIMAG  
 1 17.967 4.894  
 2 -1.443 .236  
 3 -1.473 -.971  
 4 -.536 -.272  
 5 -.652 -.812  
 6 -.248 .455  
 7 -.005 -.276  
 8 -.023 .095  
 9 .231 -.177  
 10 -.550 .116

XZ=012  
 SUCTION  
 N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG  
 1 1.360 -13.452 1 22.168 6.937 1 -3.077 16.463 1 -15.866 -3.561 1 2.868 -13.731 1 2.647 15.822  
 2 -.631 1.603 2 -.187 .075 2 -.552 .448 2 -.366 .261 2 -.396 .373 2 -.761 .560  
 3 -.611 1.022 3 -.586 .075 3 -.579 .448 3 -.609 .261 3 -.103 .154  
 4 -.545 .227 4 -.292 .451 4 -.605 .261 4 -.509 .062 4 -.683 .090  
 5 -.007 .014 5 .014 .348 5 -.138 .061 5 .062 .061 5 .030 .175  
 6 .084 .136 6 .136 .348 6 -.138 .061 6 .200 .199 6 .349 .323  
 7 .169 .029 7 .029 .018 7 .065 .199 7 .226 .125 7 .077 .091  
 8 .009 .125 8 .011 .063 8 .011 .063 8 .277 .111 8 .199 .090  
 9 .129 .134 9 .040 .144 9 .027 .230 9 .171 .152 9 .151 .077  
 10 .134 .134 10 .040 .144 10 .027 .230 10 .171 .152 10 .151 .077

XZ=030  
 SUCTION

N CPREAL CPIMAG  
 1 8.105 2.031  
 2 -.283 .406  
 3 -.479 .372  
 4 -.389 .248  
 5 -.229 .139  
 6 -.013 .463  
 7 -.041 .057  
 8 -.036 .016  
 9 -.080 .053  
 10 -.008 .096

```
FILE      ALPHA-MCL = 2.0    PUP RUN.PT   13.10  
PUN       ALPHA-BAR = .5     Q-COMP      12.81  
POINT     SIGMA = 90.        V-REF       19.75  
          COMPUTED FREQUENCY= 9.15, K = .6720
```

FILE	PUN	POINT
59	13	2

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
COMPUTEFOURIER COEFFICIENTS, PER  
\*\*\* BLADE PRESSURES, PER

BLADE NO.

XE-062  
SUCY-10N

BLADE NO.	3				4				5				6				7				9			
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
X1=062 SUCTION	1	626	-6.392	4	7.021	1.558	1	-718	7.434	1	-6.933	7.328	1	1.031	1.356	1	1.031	1.356	1	-1.023	7.526	1	1.023	7.526
	2	706	-7.063	5	-231	488	2	-363	530	2	-329	597	2	-353	530	2	-353	530	2	-0.853	7.433	2	-0.853	7.433
	3	706	-7.063	6	-231	488	3	-363	530	3	-329	597	3	-353	530	3	-353	530	3	-0.045	7.433	3	-0.045	7.433
	4	706	-7.063	7	-231	488	4	-363	530	4	-329	597	4	-353	530	4	-353	530	4	-0.045	7.433	4	-0.045	7.433
	5	706	-7.063	8	-231	488	5	-363	530	5	-329	597	5	-353	530	5	-353	530	5	-0.045	7.433	5	-0.045	7.433
	6	706	-7.063	9	-231	488	6	-363	530	6	-329	597	6	-353	530	6	-353	530	6	-0.045	7.433	6	-0.045	7.433
	7	706	-7.063	10	-231	488	7	-363	530	7	-329	597	7	-353	530	7	-353	530	7	-0.045	7.433	7	-0.045	7.433
	8	706	-7.063	11	-231	488	8	-363	530	8	-329	597	8	-353	530	8	-353	530	8	-0.045	7.433	8	-0.045	7.433
	9	706	-7.063	12	-231	488	9	-363	530	9	-329	597	9	-353	530	9	-353	530	9	-0.045	7.433	9	-0.045	7.433
	10	706	-7.063	13	-231	488	10	-363	530	10	-329	597	10	-353	530	10	-353	530	10	-0.045	7.433	10	-0.045	7.433
X1=012 PRESSURE	1	536	11.402	2	743	1.558	1	4.742	-10.167	1	14.008	0.047	1	-1.500	12.115	1	-1.500	12.115	1	5.643	-11.783	1	5.643	-11.783
	2	743	1.558	3	-743	488	2	-363	530	2	-329	597	2	-353	530	2	-353	530	2	-0.716	1.949	2	-0.716	1.949
	3	743	1.558	4	-743	488	3	-363	530	3	-329	597	3	-353	530	3	-353	530	3	-0.330	1.949	3	-0.330	1.949
	4	743	1.558	5	-743	488	4	-363	530	4	-329	597	4	-353	530	4	-353	530	4	-0.330	1.949	4	-0.330	1.949
	5	743	1.558	6	-743	488	5	-363	530	5	-329	597	5	-353	530	5	-353	530	5	-0.330	1.949	5	-0.330	1.949
	6	743	1.558	7	-743	488	6	-363	530	6	-329	597	6	-353	530	6	-353	530	6	-0.330	1.949	6	-0.330	1.949
	7	743	1.558	8	-743	488	7	-363	530	7	-329	597	7	-353	530	7	-353	530	7	-0.330	1.949	7	-0.330	1.949
	8	743	1.558	9	-743	488	8	-363	530	8	-329	597	8	-353	530	8	-353	530	8	-0.330	1.949	8	-0.330	1.949
	9	743	1.558	10	-743	488	9	-363	530	9	-329	597	9	-353	530	9	-353	530	9	-0.330	1.949	9	-0.330	1.949
	10	743	1.558	11	-743	488	10	-363	530	10	-329	597	10	-353	530	10	-353	530	10	-0.330	1.949	10	-0.330	1.949

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

## GAP Fraction

WAVELENGTH	N	CPREAL	CPIMAG	W3 0.02	W4 0.125	W5 0.250	W7 0.750	W9 0.875	N	CPREAL	CPIMAG	W9 0.938
1	1	-9.417	-1.415	-7.272	-4.48	-4.151	-1.867	-1.354	1	1.560	1.673	1.673
2	2	-6.329	-1.049	-8.307	-7.320	-3.962	-1.396	-1.354	2	1.769	1.572	1.330
3	3	-6.601	-1.708	-6.927	-4.99	-4.962	-1.124	-1.097	3	1.654	1.474	1.330
4	4	-6.059	-2.353	-6.927	-4.99	-3.747	-1.266	-1.097	4	1.515	1.308	1.043
5	5	-5.199	-3.543	-7.210	-3.17	-3.049	-1.291	-1.208	5	1.305	1.135	0.956
6	6	-4.187	-5.174	-7.053	-1.66	-2.020	-1.049	-1.045	6	1.179	0.977	0.803
7	7	-3.171	-7.134	-6.251	-1.55	-1.010	-0.814	-0.935	7	1.063	0.899	0.617
8	8	-2.154	-9.134	-5.063	-1.08	-0.210	-0.420	-1.172	8	0.933	0.799	0.432
9	9	-1.141	-11.137	-3.877	-0.94	-0.223	-0.180	-1.172	9	0.803	0.677	0.307
10	10	-0.120	-13.150	-2.691	-1.09	-0.233	-	-	10	0.677	0.551	0.171

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 59 ALPHA-MCL = 2.0 PDP RUN-PT 13.10  
 RUN 13 ALPHA-BAR = 12.41  
 POINT 12 SIGMA = 90.0  
 COMPUTED FREQUENCY = 9.15. K = .0720

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE-Q05  
 SUCTION

9

7

6

5

4

XE-Q05  
 SUCTION

N	CP-MAG	PHI
1	18.621	195.24
2	.502	151.97
3	1.766	33.35
4	.601	153.14
5	1.042	151.24
6	.518	118.59
7	.276	189.02
8	.098	103.37
9	.291	142.29
10	.126	113.53

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.520	185.77	1	16.748	190.59	1	16.261	192.65	1	14.027	191.90	1	16.237	192.96			
2	1.173	316.31	2	.718	320.94	2	.450	148.52	2	.574	316.77	2	1.985	323.60			
3	.528	157.92	3	.472	323.77	3	.571	150.82	3	1.068	220.63	3	1.095	321.50			
4	.020	155.15	4	.413	319.25	4	.507	152.02	4	.510	220.63	4	.179	199.61			
5	.391	257.66	5	.579	319.67	5	.507	152.02	5	.003	308.50	5	.466	192.78			
6	.120	44.52	6	.157	283.63	6	.204	112.56	6	.258	299.89	6	.223	209.82			
7	.171	189.65	7	.157	359.03	7	.033	218.71	7	.086	60.95	7	.154	115.29			
8	.136	183.66	8	.106	344.09	8	.233	350.15	8	.208	209.67	8	.177	120.67			
9	.201	309.87	9	.052	344.09	9	.191	352.61	9	.168	339.27	9	.170	127.10			
10			10			10			10			10					

XE-Q12  
 SUCTION

N	CP-MAG	PHI
1	8.357	194.07
2	.494	124.90
3	.607	322.15
4	.461	147.49
5	.268	331.29
6	.463	91.65
7	.070	51.99
8	.040	155.87
9	.096	146.36
10	.111	125.49



# MODE 2 --- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 59 ALPHA-MCL = 2.0 PDP PUM-PT 13.10  
 RUN 13 ALPHA-BAR = .5 O-COMP = 324.1  
 POINT 12 SIGMA = 9G. V-REF = 199.75  
 COMPUTED FREQUENCY = 9.15, K = .0720  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	6.394	185.82	1	7.192	192.51	1	7.469	185.51	1	6.989	187.26	1	6.185	189.59	1	7.596	187.77
	2	.655	302.59	2	.572	121.52	2	.642	304.42	2	.607	122.67	2	.573	105.49	2	.645	107.36
	3	1.011	229.31	3	.798	322.28	3	.871	53.67	3	.870	146.19	3	1.004	229.12	3	.878	171.72
	4	.605	149.63	4	.580	148.68	4	.571	141.92	4	.570	219.34	4	.554	161.01	4	.579	171.69
	5	.230	136.63	5	.295	38.22	5	.315	314.74	5	.230	101.09	5	.121	249.98	5	.193	249.23
	6	.581	161.23	6	.563	53.27	6	.575	276.01	6	.539	101.53	6	.336	185.98	6	.505	185.23
	7	.106	17.14	7	.096	64.10	7	.135	162.63	7	.131	267.91	7	.171	108.43	7	.180	103.71
	8	.124	196.33	8	.065	179.56	8	.107	331.24	8	.127	237.91	8	.138	235.21	8	.153	109.07
	9	.178	192.85	9	.138	133.34	9	.115	52.56	9	.161	141.22	9	.190	320.72	9	.153	109.07
	10	.179	300.78	10	.154	124.71	10	.136	321.99	10	.179	141.22	10	.201	320.72	10	.165	105.90
X=.012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	11.505	7.67	1	11.218	25.01	1	11.218	25.01	1	15.074	21.67	1	12.208	7.06	1	13.064	25.59
	2	.921	259.45	2	.948	284.85	2	.965	49.62	2	.954	84.03	2	.196	271.99	2	1.125	253.56
	3	.815	245.49	3	.675	146.49	3	.676	146.49	3	.664	149.32	3	1.018	151.02	3	1.125	253.56
	4	.677	129.12	4	.198	320.13	4	.198	320.13	4	.382	232.19	4	.533	134.73	4	.363	132.06
	5	.406	115.93	5	.518	263.94	5	.518	263.94	5	.687	81.79	5	.623	273.29	5	.545	129.91
	6	.822	264.76	6	.058	167.21	6	.068	167.21	6	.139	255.68	6	.195	323.11	6	.173	255.68
	7	.057	264.79	7	.068	230.06	7	.068	230.06	7	.120	185.57	7	.061	323.11	7	.073	255.68
	8	.176	218.61	8	.203	17.02	8	.194	298.30	8	.150	185.57	8	.148	323.11	8	.203	255.68
	9	.173	282.80	9	.194	298.30	9	.194	298.30	9	.148	121.84	9	.148	323.11	9	.203	255.68
	10			10			10			10			10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

GAP FRACTION	.062			.125			.250			.750			.875			.938		
W3	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	9.523	188.55	1	7.285	183.53	1	4.369	174.85	1	2.398	141.12	1	2.076	130.95	1	2.143	128.66
	2	.056	119.70	2	.517	123.32	2	.948	118.05	2	.930	115.22	2	.847	114.73	2	.796	114.52
	3	1.114	140.52	3	1.106	138.66	3	1.189	147.05	3	1.333	147.49	3	1.270	149.01	3	1.226	148.31
	4	.738	144.66	4	.853	144.23	4	.884	147.65	4	.943	149.29	4	.915	149.79	4	.866	149.37
	5	.310	129.33	5	.451	120.71	5	.560	120.71	5	.764	126.79	5	.739	129.67	5	.739	129.67
	6	.574	108.33	6	.708	100.23	6	.772	105.71	6	.203	261.76	6	.184	252.77	6	.180	252.77
	7	.248	113.58	7	.180	104.34	7	.164	277.63	7	.054	329.59	7	.046	330.52	7	.015	329.59
	8	.143	113.90	8	.154	102.32	8	.178	102.67	8	.164	329.59	8	.173	330.52	8	.170	329.59
	9	.143	113.90	9	.154	102.32	9	.178	102.67	9	.164	329.59	9	.173	330.52	9	.170	329.59
	10	.253	143.65	10	.243	153.35	10	.251	152.77	10	.226	142.97	10	.226	142.97	10	.226	142.97

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 61 ALPHA-MCL = 2.0 POP RUN-PT 13.12  
 RUN 13 ALPHA-BAR = 0.5 O-COMP = 12515  
 POINT 14 SIGMA = 90. V-REF = 200.17  
 COMPUTED FREQUENCY = 15.58, K = .1222

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE-005  
 SUCTION

N	CPREAL	CPIMAG
1	18.465	4.040
2	.182	.010
3	-1.395	-.920
4	-.332	.172
5	-.365	-.543
6	-.201	.027
7	-.033	-.247
8	-.057	.018
9	.046	-.125
10	.011	-.059

XE-012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	.982	-17.253	1	-3.068	15.286
2	.074	.451	2	-.073	-.066
3	.182	.515	3	-.368	-.001
4	-.056	-.075	4	-.082	-.070
5	-.236	.072	5	-.097	-.210
6	-.104	.058	6	-.163	-.005
7	-.062	.124	7	-.041	-.077
8	-.032	.054	8	-.112	-.038
9	-.004	-.040	9	-.011	-.073
10	.068	-.048	10	-.041	-.073

XE-030  
 SUCTION

N	CPREAL	CPIMAG
1	7.866	1.463
2	.194	.144
3	.070	.022
4	-.120	-.071
5	-.079	-.006
6	-.042	-.017
7	-.016	-.013
8	-.042	-.023
9	.025	-.025
10	.025	-.025

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-3.046	15.183	1	-3.142	-.025
2	.089	.056	2	-.023	.121
3	.141	-.010	3	.121	.028
4	-.085	.091	4	.028	.099
5	-.073	.080	5	-.009	.093
6	-.118	.036	6	-.122	-.048
7	-.123	-.068	7	-.158	-.013
8	-.136	.013	8	-.109	.045
9	.016	-.040	9	.054	.121
10	.000	.029	10	.045	-.074

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 51 ALPHA-MCL = 2.0 PUP RUN:PT 13.12  
 RUN 13 ALPHA-BAR = 90.0 O-COMP = 132575  
 POINT 14 SIGMA = 90.0 V-REF = 200.17  
 COMPUTED FREQUENCY = 15.58, K = .1222

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
X=.062 SUCTION	1	.055	-6.566	1	.608	1.025	1	-1.144	6.819	1	-7.262	-1.086	1	.675	-6.729	1	-1.162	7.051
	2	.162	.266	2	.256	.202	2	.168	.151	2	.035	.174	2	.122	.389	2	.195	.305
	3	.189	.295	3	.101	.062	3	.139	.036	3	.035	.123	3	.075	.311	3	.134	.077
	4	.089	.095	4	.119	.061	4	.070	.021	4	.020	.095	4	.099	.099	4	.081	.076
	5	.025	.140	5	.069	.007	5	.093	.001	5	.140	.022	5	.066	.067	5	.101	.089
	6	.083	.078	6	.016	.046	6	.089	.038	6	.090	.001	6	.076	.045	6	.048	.002
	7	.025	.021	7	.072	.015	7	.117	.008	7	.111	.034	7	.070	.026	7	.103	.017
	8	.070	.037	8	.021	.031	8	.020	.013	8	.052	.005	8	.097	.024	8	.102	.013
	9	.019	.017	9	.037	.020	9	.020	.022	9	.052	.005	9	.016	.024	9	.012	.009
	10	.015	.017	10	.037	.020	10	.022	.022	10	.052	.005	10	.016	.024	10	.012	.009
X=.012 PRESSURE	1	-2.751	10.254	1	3.408	-10.349	1	12.477	4.149	1	12.477	4.149	1	-1.922	10.955	1	.069	-12.403
	2	.317	.279	2	.132	.585	2	.188	.148	2	.188	.148	2	.346	.390	2	.075	.633
	3	.025	.201	3	.136	.103	3	.340	.172	3	.217	.036	3	.053	.232	3	.312	.285
	4	.058	.176	4	.137	.088	4	.217	.036	4	.217	.036	4	.101	.102	4	.012	.087
	5	.058	.176	5	.137	.088	5	.217	.036	5	.217	.036	5	.101	.102	5	.012	.087
	6	.058	.176	6	.137	.088	6	.217	.036	6	.217	.036	6	.101	.102	6	.012	.087
	7	.058	.176	7	.137	.088	7	.217	.036	7	.217	.036	7	.101	.102	7	.012	.087
	8	.058	.176	8	.137	.088	8	.217	.036	8	.217	.036	8	.101	.102	8	.012	.087
	9	.058	.176	9	.137	.088	9	.217	.036	9	.217	.036	9	.101	.102	9	.012	.087
	10	.058	.176	10	.137	.088	10	.217	.036	10	.217	.036	10	.101	.102	10	.012	.087

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062			W4 .125			W5 .250			W7 .750			W8 .875			W9 .938		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	-9.549	-1.356	1	-7.764	-.605	1	-5.037	-.089	1	-2.858	.744	1	-2.371	.757	1	-2.199	.869
	2	.184	.086	2	.000	-.005	2	.267	.384	2	.314	.280	2	.311	.300	2	.338	.258
	3	.099	.063	3	.060	-.043	3	.026	.152	3	.106	.174	3	.124	.123	3	.150	.124
	4	.003	.041	4	.055	-.094	4	.072	.053	4	.114	.057	4	.077	.061	4	.066	.075
	5	.001	.008	5	.105	-.062	5	.010	.108	5	.094	.086	5	.099	.145	5	.059	.021
	6	.012	.088	6	.170	-.067	6	.132	.100	6	.136	.076	6	.120	.053	6	.125	.031
	7	.011	.022	7	.122	-.007	7	.122	.021	7	.168	.034	7	.120	.038	7	.121	.031
	8	.036	.105	8	.015	.030	8	.022	.047	8	.168	.034	8	.127	.046	8	.121	.031
	9	.036	.105	9	.015	.030	9	.022	.047	9	.168	.034	9	.127	.046	9	.121	.031
	10	.036	.105	10	.015	.030	10	.022	.047	10	.168	.034	10	.127	.046	10	.121	.031

## CODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 61 ALPHA-MCL = 2.0 CP PUN.PI 12.12  
 PUN 12 ALPHA-BAR = 9.5 G-COMP = 32575  
 POINT 12 SIGMA = 90.0 W-REF = 288.17  
 COMPUTED FREQUENCY = 15.58, M = .1222

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PEP RADIAN \*\*\*

BLADE NO.

X=005  
SUCTION

9

7

6

5

4

3

N	CP-MAG	PHI
1	.902	192.34
2	.182	33.26
3	1.671	33.41
4	.274	192.50
5	.654	158.12
6	.201	178.05
7	.249	162.40
8	.059	162.35
9	.114	115.33
10	.063	230.59

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	.290	184.24	1	.446	191.35	1	.904	191.39	1	.408	191.31
2	.457	260.59	2	.123	224.04	2	.462	135.84	2	.542	277.69
3	.546	169.50	3	.125	222.75	3	.172	130.72	3	.546	277.30
4	.094	233.94	4	.124	222.75	4	.055	274.35	4	.153	290.51
5	.247	206.72	5	.124	222.75	5	.140	182.37	5	.265	290.51
6	.119	230.68	6	.141	174.94	6	.220	169.98	6	.124	277.21
7	.063	158.33	7	.137	174.94	7	.110	169.98	7	.047	254.27
8	.043	174.33	8	.045	269.73	8	.067	324.13	8	.222	254.27
9	.023	184.33	9	.029	269.73	9	.067	324.13	9	.074	254.27
10			10			10			10		

X=012  
SUCTION

N	CP-MAG	PHI
1	.902	192.34
2	.182	33.26
3	1.671	33.41
4	.274	192.50
5	.654	158.12
6	.201	178.05
7	.249	162.40
8	.059	162.35
9	.114	115.33
10	.063	230.59

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	.290	184.24	1	.446	191.35	1	.904	191.39	1	.408	191.31
2	.457	260.59	2	.123	224.04	2	.462	135.84	2	.542	277.69
3	.546	169.50	3	.125	222.75	3	.172	130.72	3	.546	277.30
4	.094	233.94	4	.124	222.75	4	.055	274.35	4	.153	290.51
5	.247	206.72	5	.124	222.75	5	.140	182.37	5	.265	290.51
6	.119	230.68	6	.141	174.94	6	.220	169.98	6	.124	277.21
7	.063	158.33	7	.137	174.94	7	.110	169.98	7	.047	254.27
8	.043	174.33	8	.045	269.73	8	.067	324.13	8	.222	254.27
9	.023	184.33	9	.029	269.73	9	.067	324.13	9	.074	254.27
10			10			10			10		

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 61 ALPHA-MCL = 2.0 POP RUN.PT 13.12  
 PUN 13 ALPHA-BAR = .5 O-COMP = 32575  
 POINT 4 SIGMA = 90. V-REF = 200.17  
 COMPUTED FREQUENCY = 15.58. K = .1222

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	5	6	7	9
X=0.062 SUCTION					
N	1	1	1	1	1
CP-MAG	6.567	6.915	7.343	7.762	7.146
PHI	180.48	189.52	188.52	185.72	189.36
N	2	2	2	2	2
CP-MAG	3.311	3.226	3.367	3.407	3.362
PHI	147.28	221.90	208.21	252.59	237.51
N	3	3	3	3	3
CP-MAG	1.155	1.130	1.128	1.120	1.085
PHI	348.87	226.38	237.00	169.83	266.68
N	4	4	4	4	4
CP-MAG	1.143	1.073	1.071	1.099	1.190
PHI	316.42	253.37	232.92	275.20	225.21
N	5	5	5	5	5
CP-MAG	1.114	1.070	1.107	1.094	1.135
PHI	316.42	359.22	242.92	252.57	225.21
N	6	6	6	6	6
CP-MAG	1.101	1.094	1.104	1.088	1.104
PHI	14.17	113.10	188.28	59.27	92.13
N	7	7	7	7	7
CP-MAG	1.073	1.117	1.111	1.075	1.104
PHI	163.23	180.71	210.71	200.80	189.61
N	8	8	8	8	8
CP-MAG	1.041	1.021	1.040	1.122	1.018
PHI	152.64	67.88	301.49	232.80	231.41
N	9	9	9	9	9
CP-MAG	0.023	0.026	0.052	0.030	0.050
PHI	130.08	209.47	5.79	127.51	281.37
N	10	10	10	10	10
CP-MAG	0.023	0.026	0.052	0.030	0.050
PHI	130.08	209.47	5.79	127.51	281.37
X=0.012 PRESSURE					
N	1	1	1	1	1
CP-MAG	10.617	10.895	13.149	11.123	13.054
PHI	15.02	18.23	18.39	9.95	18.16
N	2	2	2	2	2
CP-MAG	4.233	4.602	3.400	3.238	4.637
PHI	221.37	256.38	38.23	131.07	263.28
N	3	3	3	3	3
CP-MAG	2.09	1.70	2.276	2.143	2.187
PHI	15.36	307.18	1.60	226.10	312.43
N	4	4	4	4	4
CP-MAG	1.538	1.140	1.522	1.237	1.078
PHI	187.31	228.50	1.60	126.80	273.79
N	5	5	5	5	5
CP-MAG	1.538	1.140	1.522	1.237	1.078
PHI	187.31	228.50	1.60	126.80	273.79
N	6	6	6	6	6
CP-MAG	1.188	1.031	1.063	1.076	1.047
PHI	299.46	82.51	269.16	47.19	164.80
N	7	7	7	7	7
CP-MAG	1.078	1.066	1.024	1.168	1.126
PHI	155.23	200.90	298.60	196.67	240.80
N	8	8	8	8	8
CP-MAG	0.043	0.051	0.024	0.099	0.107
PHI	318.35	151.15	295.14	148.67	240.80
N	9	9	9	9	9
CP-MAG	0.041	0.094	0.026	0.071	0.073
PHI	205.74	151.15	5.31	246.23	180.56
N	10	10	10	10	10
CP-MAG	0.041	0.094	0.026	0.071	0.073
PHI	205.74	151.15	5.31	246.23	180.56

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W9 .938
N	1	1	1	1	1
CP-MAG	9.645	7.748	5.038	2.953	2.364
PHI	188.08	185.13	181.02	165.41	158.43
N	2	2	2	2	2
CP-MAG	5.86	3.45	2.468	1.421	1.174
PHI	331.11	359.15	155.10	44.58	33.93
N	3	3	3	3	3
CP-MAG	2.12	2.22	1.54	1.20	1.195
PHI	156.58	90.00	99.50	58.73	33.93
N	4	4	4	4	4
CP-MAG	0.064	0.074	0.090	0.127	0.100
PHI	209.34	215.92	216.45	206.75	225.06
N	5	5	5	5	5
CP-MAG	0.008	0.122	0.109	0.155	0.127
PHI	293.59	223.74	226.72	207.00	189.61
N	6	6	6	6	6
CP-MAG	0.159	0.097	0.136	0.171	0.129
PHI	213.59	223.74	217.50	191.58	200.80
N	7	7	7	7	7
CP-MAG	0.093	0.122	0.154	0.050	0.056
PHI	166.34	176.91	260.12	191.58	200.80
N	8	8	8	8	8
CP-MAG	0.108	0.034	0.047	0.091	0.056
PHI	283.70	296.99	172.12	191.58	200.80
N	9	9	9	9	9
CP-MAG	0.042	0.066	0.043	0.091	0.046
PHI	333.40	10.45	18.52	8.27	359.32
N	10	10	10	10	10
CP-MAG	0.042	0.066	0.043	0.091	0.046
PHI	333.40	10.45	18.52	8.27	359.32

MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 63 ALPHA-MCL = 2.0 PUP RUN.PT 13.14  
 PUY 13 ALPHA-BAR = .5 Q-COMP = .32398  
 POINT 16 SIGMA = 90. V-REF = 195.61  
 COMPUTED FREQUENCY = 19.26, K = .1515

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=0.05  
 SUCTION

9

7

6

5

4

3

N	CPREAL	CPIMAG
1	19.202	3.579
2	614	-248
3	-1.775	-608
4	-3.09	474
5	-5.01	-321
6	-8.08	133
7	-10.10	-139
8	-12.10	152
9	-14.10	-158
10	-16.10	167

X=0.12  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	13.259	-13.259	1	15.651	-2.289	1	2.904	-13.801	1	-2.521	16.040	1	-2.521	16.040			
2	13.259	-13.259	2	15.651	-2.289	2	2.904	-13.801	2	-2.521	16.040	2	-2.521	16.040			
3	13.259	-13.259	3	15.651	-2.289	3	2.904	-13.801	3	-2.521	16.040	3	-2.521	16.040			
4	13.259	-13.259	4	15.651	-2.289	4	2.904	-13.801	4	-2.521	16.040	4	-2.521	16.040			
5	13.259	-13.259	5	15.651	-2.289	5	2.904	-13.801	5	-2.521	16.040	5	-2.521	16.040			
6	13.259	-13.259	6	15.651	-2.289	6	2.904	-13.801	6	-2.521	16.040	6	-2.521	16.040			
7	13.259	-13.259	7	15.651	-2.289	7	2.904	-13.801	7	-2.521	16.040	7	-2.521	16.040			
8	13.259	-13.259	8	15.651	-2.289	8	2.904	-13.801	8	-2.521	16.040	8	-2.521	16.040			
9	13.259	-13.259	9	15.651	-2.289	9	2.904	-13.801	9	-2.521	16.040	9	-2.521	16.040			
10	13.259	-13.259	10	15.651	-2.289	10	2.904	-13.801	10	-2.521	16.040	10	-2.521	16.040			

X=0.20  
 SUCTION

N	CPREAL	CPIMAG
1	8.612	1.563
2	3.61	-2.22
3	3.55	-1.57
4	3.55	1.57
5	3.55	1.57
6	3.55	1.57
7	3.55	1.57
8	3.55	1.57
9	3.55	1.57
10	3.55	1.57

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 63 ALPHA-MCL = 2.0 PDF RUN-PT 13.14  
 RUN 13 ALPHA-BAR = 0.5 O-COMP = 13398  
 POINT 16 SIGMA = 90.0 V-REF = 199.61  
 COMPUTED FREQUENCY = 19.26, K = .1515

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	.413	-6.330	1	7.512	1.283	1	292	7.620	1	-6.756	-.458	1	1.237	-6.334	1	.541	7.699
	2	.178	-.296	2	.382	-.303	2	.043	-.458	2	.462	-.386	2	.169	-.185	2	.282	-.169
	3	-.366	.165	3	.373	.052	3	-.267	.081	3	-.484	-.098	3	.345	-.097	3	-.099	-.345
	4	-.209	.088	4	.262	-.141	4	.180	-.081	4	-.073	-.059	4	.107	-.111	4	-.016	-.107
	5	.089	-.069	5	.069	.041	5	-.011	-.007	5	-.021	-.016	5	-.023	.087	5	.025	-.021
	6	.029	.061	6	.005	-.005	6	.026	.007	6	-.029	-.048	6	-.004	.152	6	-.088	.052
	7	.087	-.067	7	.041	.041	7	.004	-.038	7	.072	-.008	7	.117	-.013	7	.070	.071
	8	-.004	-.019	8	.005	-.005	8	.044	-.069	8	.024	-.017	8	.088	-.073	8	.080	.070
	9	-.013	-.104	9	.062	-.062	9	-.016	-.035	9	-.019	-.016	9	.066	.051	9	.019	-.019
	10	-.051	.104	10	-.076	.311	10	-.036	-.012	10	-.019	-.016	10	-.079	.051	10	-.043	-.006
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	-1.292	10.641	1	4.335	-10.307	1	13.930	4.292	1	197	11.104	1	104	5.210	1	209	-12.209
	2	-.210	-.453	2	.532	-.009	2	-.007	-.744	2	.413	-.169	2	.368	-.104	2	.368	-.104
	3	-.372	-.402	3	.378	-.007	3	-.007	-.172	3	.252	-.136	3	.207	-.108	3	.207	-.108
	4	-.434	.159	4	.276	-.034	4	-.466	-.049	4	.132	-.090	4	.136	-.122	4	.136	-.122
	5	.143	.053	5	.026	.093	5	.057	.113	5	.030	-.061	5	.148	-.090	5	.148	-.090
	6	.018	.053	6	.092	.054	6	-.007	-.050	6	.140	-.074	6	.061	-.028	6	.061	-.028
	7	-.101	.060	7	-.024	-.015	7	-.051	-.145	7	.053	-.043	7	.074	-.083	7	.074	-.083
	8	.044	.060	8	.036	-.019	8	.047	-.103	8	.023	-.022	8	.083	-.041	8	.083	-.041
	9	.053	.056	9	.032	-.035	9	.084	.033	9	.008	-.008	9	.083	-.041	9	.083	-.041
	10	-.014	-.062	10	.049	.015	10	-.064	-.033	10	.006	-.006	10	.041	-.041	10	.041	-.041

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
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	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
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	N	N	N	N	N	N
	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
	N	N	N	N	N	N
	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
	N	N	N	N	N	N
	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
	N	N	N	N	N	N
	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
	N	N	N	N	N	N
	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
	N	N	N	N	N	N
	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
	N	N	N	N	N	N
	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
	N	N	N	N	N	N
	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
	N	N	N	N	N	N
	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
	N	N	N	N	N	N
	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
	N	N	N	N	N	N
	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
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	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
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	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
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	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
	N	N	N	N	N	N
	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
	N	N	N	N	N	N
	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
	N	N	N	N	N	N
	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
	N	N	N	N	N	N
	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
	N	N	N	N	N	N
	CPREAL					

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 63 ALPHA-MCL = 2.0 POP RUN-PT 13.14  
 RUN 13 ALPHA-BAR = 0.5 O-COMP = 13.99  
 POINT 16 SIGMA = 90.0 V-REF = 109.61  
 COMPUTED FREQUENCY = 19.26, K = .1515

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

N	CP-MAG	PHI
1	19.532	190.56
2	.663	338.000
3	1.876	18.900
4	.509	127.38
5	.595	32.68
6	.107	107.03
7	.165	57.68
8	.053	78.71
9	.093	108.81
10	.089	161.94

X=.012  
 SUCTION

N	CP-MAG	PHI
1	13.154	185.71
2	.156	174.30
3	.533	222.49
4	.143	115.65
5	.127	291.47
6	.076	269.86
7	.134	315.85
8	.037	314.68
9	.142	136.55
10	.079	285.70

X=.030  
 SUCTION

N	CP-MAG	PHI
1	8.753	190.28
2	.424	328.358
3	.356	4.24
4	.246	145.98
5	.073	325.02
6	.066	94.76
7	.028	9.93
8	.062	50.83
9	.046	98.24
10	.057	170.93

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# MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 63 ALPHA-MCL = 2.0 PUP RUN-PT 13.14  
 RUN 13 ALPHA-BAR = .5 Q-COMP = .32398  
 POINT 6 SIGMA = 90. V-REF = 199.61  
 COMPUTED FREQUENCY = 19.26, K = .1515

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	0.382	187.32	1	7.626	182.19	1	6.771	183.88	1	6.453	191.05	1	7.318	184.02			
	2	0.345	187.02	2	7.488	184.64	2	6.602	180.16	2	6.250	191.35	2	7.326	184.83			
	3	0.383	187.80	3	7.376	184.33	3	6.498	180.16	3	6.154	191.05	3	7.360	184.98			
	4	0.266	181.68	4	7.297	185.82	4	6.078	180.16	4	5.909	191.35	4	7.390	185.28			
	5	0.118	141.63	5	7.061	155.26	5	6.043	181.77	5	5.119	144.45	5	7.410	185.61			
	6	0.067	124.49	6	6.811	134.13	6	5.099	191.75	6	4.088	119.03	6	7.435	185.95			
	7	0.110	152.42	7	6.043	140.84	7	4.072	191.17	7	3.119	103.36	7	7.455	186.28			
	8	0.178	175.64	8	5.611	140.64	8	3.071	235.86	8	2.098	83.36	8	7.477	186.61			
	9	0.170	175.64	9	5.071	147.18	9	2.038	219.42	9	1.093	51.81	9	7.500	186.94			
	10	0.116	129.67	10	4.077	18.04	10	1.025	219.55	10	0.094	32.60	10	7.523	187.27			
X=.012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	10.719	6.92	1	11.182	22.81	1	14.577	17.13	1	11.106	1.02	1	13.311	23.04			
	2	4.99	114.82	2	13.32	182.68	2	17.44	269.26	2	1.235	1.02	2	13.311	23.04			
	3	7.10	128.41	3	13.32	199.85	3	17.2	272.26	3	1.656	1.02	3	13.311	23.04			
	4	4.53	163.84	4	12.89	196.94	4	14.69	185.95	4	2.54	1.02	4	13.311	23.04			
	5	1.56	168.79	5	10.66	164.51	5	12.7	163.25	5	1.11	1.02	5	13.311	23.04			
	6	0.056	239.12	6	10.28	129.55	6	10.69	227.33	6	1.132	1.02	6	13.311	23.04			
	7	0.118	239.12	7	10.41	127.65	7	10.52	193.62	7	1.132	1.02	7	13.311	23.04			
	8	0.077	316.80	8	10.47	127.65	8	10.52	171.94	8	1.132	1.02	8	13.311	23.04			
	9	0.077	316.80	9	10.47	127.65	9	10.52	309.18	9	1.132	1.02	9	13.311	23.04			
	10	0.063	77.25	10	10.51	342.93	10	10.72	153.02	10	1.044	1.02	10	13.311	23.04			

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3	W4	W5	W6	W7	W9								
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	8.925	184.18	1	6.941	179.09	1	4.104	170.84	1	2.072	134.24	1	1.792	125.83
2	1.268	187.99	2	4.985	170.67	2	5.260	170.57	2	4.240	202.09	2	4.743	210.75
3	0.680	228.72	3	1.840	195.47	3	1.900	176.70	3	2.300	200.84	3	2.865	208.11
4	0.082	288.69	4	0.017	152.83	4	1.760	179.98	4	0.522	175.54	4	0.335	152.83
5	0.370	93.06	5	0.209	153.83	5	1.460	113.70	5	0.130	120.42	5	0.040	135.93
6	0.116	168.81	6	0.025	153.83	6	1.270	113.70	6	0.130	135.93	6	0.137	135.93
7	0.032	24.22	7	0.125	253.88	7	1.053	52.47	7	0.059	286.91	7	0.043	196.51
8	0.046	206.35	8	0.054	185.96	8	0.053	247.78	8	0.040	164.91	8	0.043	196.51
9			9			9			9			9		
10			10			10			10			10		

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 78 ALPHA-MCL = 2.0 POP RUN PT 16.05  
 RUN 16 ALPHA-BAR = 5.0 O-CUM = .33098  
 POINT 12 SIGMA = 135. V-REF = 201.73  
 COMPUTED FREQUENCY = 9.19, K = .0715

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XZ=005  
 SUCTION

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N CPREAL CPIMAG  
 1 1.182-23.537  
 2 -.175-.526  
 3 -1.023-2.077  
 4 .171-.775  
 5 -.303-1.400  
 6 -.450-.655  
 7 .503-.421  
 8 .276-.277  
 9 -.195-.024  
 10 .004-.008

XZ=012  
 SUCTION

N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG  
 1-11.228 12.149 1 1.874-20.708 1 11.789 13.365 1-18.874 -2.692 1 13.017-12.865 1-11.141-13.412  
 2 -.398 .758 2 1.228 .998 2 2.072 .925 2 3.674 .792 2 3.810 .692  
 3 -.601 .219 3 1.339 .607 3 1.214 .411 3 1.400 .467 3 4.162 .575  
 4 .400 .456 4 1.259 .869 4 1.430 .432 4 2.224 .467 4 5.162 .404  
 5 .181 .448 5 1.118 .346 5 .005 .257 5 2.378 .434 5 5.162 .344  
 6 -.590 .243 6 1.331 .398 6 .566 .255 6 2.378 .434 6 5.162 .344  
 7 .053 .243 7 1.192 .452 7 .018 .255 7 2.378 .434 7 5.162 .344  
 8 -.084 .157 8 .048 .426 8 .072 .255 8 2.378 .434 8 5.162 .344  
 9 .066 .157 9 .053 .286 9 .002 .255 9 2.378 .434 9 5.162 .344  
 10 .001 .072 10 .116 .294 10 .013 .074 10 .052 .160 10 .035 .051

XZ=030  
 SUCTION

N CPREAL CPIMAG  
 1 -.116-9.137  
 2 .036-.710  
 3 -1.098-.366  
 4 .430-.382  
 5 -.062-.369  
 6 .515-.150  
 7 -.077-.055  
 8 .015-.110  
 9 -.023-.081  
 10 .032-.035

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78 ALPHA-MCL = 2.0 POP PUN.PT 16.05
16 ALPHA-BAR = .5 Q-CMP = .3308
2 SIGMA = 135. K-REF = 201.73
COMPUTED FREQUENCY = 9.18, K = .0715

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

X=062  
SUCTION

X=.062 SUCTION											X=.012 PRESSURE										
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	
1	-5.710	5.799	1	-4.482	-7.625	1	4.697	5.718	1	-8.814	-9.979	1	5.139	-6.206	1	-5.459	-6.088	1	7.376	11.586	
2	-.959	.959	2	-.078	1.034	2	-.066	1.050	2	-1.247	1.013	2	-.176	1.081	2	-.178	-.995	2	7.193	1.590	
3	-.959	.961	3	-1.305	1.173	3	1.234	1.055	3	-1.247	1.688	3	-.176	1.081	3	-.968	-.995	3	-1.598	-.004	
4	-.564	.560	4	.510	-.534	4	1.451	-.425	4	.464	-.595	4	-.380	-.454	4	.232	.737	4	-.024	-.004	
5	-.126	-.491	5	-.037	-.292	5	.060	-.183	5	-.042	-.401	5	-.582	-.324	5	-.051	-.316	5	-.061	-.249	
6	-.092	-.019	6	-.573	1.155	6	-.608	1.183	6	-.549	-.202	6	-.043	-.135	6	-.041	-.040	6	-.061	-.240	
7	-.111	-.135	7	-.069	-.140	7	-.016	-.126	7	-.047	-.134	7	-.131	-.039	7	-.041	-.040	7	-.117	-.022	
8	-.019	-.021	8	-.005	-.076	8	-.008	-.073	8	.039	-.036	8	-.003	-.039	8	-.002	-.003	8	-.066	-.011	
9	-.002	-.018	9	-.038	-.056	9	-.039	-.045	9	.038	-.033	9	-.077	-.107	9	-.002	-.074	9	-.066	-.011	
10			10			10			10						10			10			
X=.062 SUCTION											X=.012 PRESSURE										
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	
1	8.437	-9.820	1	-8.388	-10.478	1	-8.388	-10.478	1	15.022	3.068	1	-11.161	9.125	1	7.376	11.586	1	7.376	11.586	
2	-1.071	1.274	2	-.451	1.265	2	1.111	1.159	2	-1.305	1.057	2	-1.202	1.028	2	7.193	1.590	2	7.193	1.590	
3	-1.697	.768	3	.645	-.808	3	.645	-.808	3	-1.226	1.441	3	-.648	-.024	3	-1.598	-.004	3	-1.598	-.004	
4	.007	.223	4	.118	.304	4	.118	.304	4	.216	.793	4	-.014	-.367	4	-.061	-.249	4	-.061	-.249	
5	-.043	-.084	5	-.562	-.022	5	-.562	-.022	5	-.675	-.365	5	-.641	-.173	5	-.061	-.249	5	-.061	-.249	
6	-.213	-.024	6	-.188	-.044	6	-.188	-.044	6	-.245	-.059	6	-.204	-.008	6	-.117	-.022	6	-.117	-.022	
7	-.015	-.033	7	-.048	-.134	7	-.048	-.134	7	-.245	-.166	7	-.204	-.008	7	-.066	-.011	7	-.066	-.011	
8	-.089	-.141	8	-.301	-.029	8	-.301	-.029	8	-.041	-.051	8	-.065	-.008	8	-.066	-.011	8	-.066	-.011	
9	-.029	.046	9	-.040	-.032	9	-.040	-.032	9	-.015	-.051	9	-.011	-.030	9	-.066	-.011	9	-.066	-.011	
10			10			10			10						10			10			

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.  
GAP FRACTIO

	W3			W4			W5			W7			W8			W9		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-11	.007	-1	-9	.466	-.036	1	-6	.376	-.414	-4	.155	1	-3	.504	1	-3	.504
2	-1	.261	-.177	-1	.526	-.112	2	-1	.050	1	-.072	1	.269	1	.504	2	-1	.504
3	-1	.658	-.177	-1	.540	-.093	2	-1	.644	1	.720	1	.206	1	.717	3	-1	.605
4	-	.558	-.077	-1	.542	-.071	3	-	.624	1	.707	1	.552	3	-.083	5	-	.616
5	-	.074	-.317	-	.725	-.071	5	-	.119	1	.613	1	.524	5	-.080	5	-	.057
6	-	.042	-.070	-	.027	-.123	6	-	.123	1	.513	1	.177	6	-.106	8	-	.166
8	-	.028	-.070	-	.027	-.139	8	-	.032	1	.510	1	.041	8	-.091	9	-	.050
9	-	.016	-.112	-	.069	-.074	9	-	.055	1	.504	1	.076	9	-.048	10	-	.050
10	-	.102	-.102	-	.069	-.074	10	-	.057	1	.504	1	.076	10	-.048	10	-	.050

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 78 ALPHA-MCL = 2.0 POP RUN-PT 16.05  
 RUN 16 ALPHA-BAR = 135.0 Q-COMP = .33068  
 POINT 12 SIGMA = 135.0 V-REF = 201.73  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
 COMPUTED FREQUENCY = 9.18, K = .0715  
 UNBIASED PHASE ANGLE

BLADE NO. 3

X=.005  
 SUCTION

N	CP-MAG	PHI
1	23.566	182.97
2	.555	288.40
3	2.715	313.77
4	1.734	77.59
5	1.432	12.22
6	.795	55.53
7	.421	.35
8	.390	45.11
9	.197	62.88
10	.098	92.54

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X=.012  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	16.543	177.74	1	17.822	183.59	1	19.025	189.12	1	19.302	180.38
2	.856	207.88	2	1.929	185.17	2	1.647	192.71	2	1.040	220.38
3	.640	295.00	3	1.470	282.47	3	1.218	186.93	3	1.554	163.71
4	.606	228.77	4	1.906	245.62	4	.600	150.16	4	.511	240.38
5	.483	283.05	5	.365	161.11	5	.361	107.59	5	.211	140.57
6	.590	82.72	6	.341	16.57	6	.555	217.92	6	.641	126.17
7	.248	222.24	7	.300	202.94	7	.059	222.12	7	.033	248.14
8	.101	214.34	8	.291	279.19	8	.040	267.77	8	.263	320.17
9	.069	57.39	9	.066	169.54	9	.061	331.30	9	.075	91.30
10	.072	1.20	10	.075	248.51	10	.078	2.85	10	.185	149.55

X=.030  
 SUCTION

N	CP-MAG	PHI
1	9.137	179.27
2	.710	267.12
3	1.100	273.45
4	.578	41.60
5	.376	10.37
6	.536	16.28
7	.095	234.15
8	.111	277.77
9	.084	162.88
10	.044	227.09

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 78 ALPHA-MCL = 2.0 PDP RUN-PT 16.05  
 PUN 16 ALPHA-BAR = .5 Q-CUMP = 33068  
 POINT 12 ALPHA-SIGMA = 135. V-REF = 201.73  
 COMPUTED FREQUENCY = 9.18. K = .0715

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
X=.062	1	8.138	179.55	1	7.640	176.34	1	7.399	185.60	1	8.868	186.34	1	8.057	174.62	1	8.147	182.93
SUCTION	2	9.959	175.24	2	1.037	265.70	2	1.042	356.51	2	1.014	188.53	2	1.095	189.26	2	9.918	111.21
	3	9.781	311.81	3	1.716	277.56	3	1.741	228.19	3	1.758	192.00	3	1.752	152.86	3	1.064	250.16
	4	9.704	224.81	4	2.294	46.34	4	4.27	36.92	4	4.033	96.01	4	3.25	131.90	4	3.99	219.45
	5	9.507	300.64	5	2.94	7.20	5	6.35	296.73	5	5.85	202.19	5	6.62	118.37	5	5.50	305.04
	6	9.226	91.72	6	5.94	15.12	6	102	276.36	6	0.60	1474.66	6	0.45	229.41	6	0.49	3291.90
	7	9.221	230.44	7	1.21	267.78	7	1.46	276.43	7	1.34	315.66	7	0.39	134.68	7	0.45	3337.02
	8	9.028	356.22	8	0.65	153.24	8	0.73	319.11	8	0.54	229.85	8	0.33	144.30	8	0.40	3393.99
	9	9.019	352.58	9	0.67	235.42	9	0.59	319.11	9	0.67	229.85	9	0.33	144.30	9	0.40	3393.99
	10	9.019	352.58	10	0.67	235.42	10	0.59	319.11	10	0.67	229.85	10	0.33	144.30	10	0.40	3393.99
X=.012	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
PRESSURE	1	13.211	356.98	1	13.737	7.36	1	13.737	7.36	1	15.332	11.54	1	14.531	5.18	1	13.734	12.52
	2	1.722	324.89	2	1.343	340.39	2	1.328	335.15	2	1.100	171.57	2	1.485	121.16	2	1.562	352.91
	3	1.054	323.27	3	1.037	231.41	3	1.037	231.41	3	1.034	186.34	3	0.975	121.16	3	1.598	352.91
	4	1.023	323.27	4	1.037	231.41	4	1.037	231.41	4	1.034	186.34	4	0.975	121.16	4	1.598	352.91
	5	1.023	323.27	5	1.037	231.41	5	1.037	231.41	5	1.034	186.34	5	0.975	121.16	5	1.598	352.91
	6	1.023	323.27	6	1.037	231.41	6	1.037	231.41	6	1.034	186.34	6	0.975	121.16	6	1.598	352.91
	7	1.023	323.27	7	1.037	231.41	7	1.037	231.41	7	1.034	186.34	7	0.975	121.16	7	1.598	352.91
	8	1.023	323.27	8	1.037	231.41	8	1.037	231.41	8	1.034	186.34	8	0.975	121.16	8	1.598	352.91
	9	1.023	323.27	9	1.037	231.41	9	1.037	231.41	9	1.034	186.34	9	0.975	121.16	9	1.598	352.91
	10	1.023	323.27	10	1.037	231.41	10	1.037	231.41	10	1.034	186.34	10	0.975	121.16	10	1.598	352.91

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062			W4 .125			W5 .250			W750 .750			W875 .875			W918 .918		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	11.892	186.85	185.04	9.522	185.04	185.04	9.389	183.72	183.72	4.165	176.13	176.13	3.550	176.33	176.33	3.563	173.79	173.79
2	1.646	186.85	185.04	1.144	185.04	185.04	1.614	183.72	183.72	1.630	187.94	187.94	1.530	186.86	186.86	1.542	186.87	186.87
3	1.952	186.85	185.04	1.150	185.04	185.04	1.140	183.72	183.72	1.173	186.86	186.86	1.184	186.86	186.86	1.161	186.87	186.87
4	1.952	186.85	185.04	1.150	185.04	185.04	1.140	183.72	183.72	1.173	186.86	186.86	1.184	186.86	186.86	1.161	186.87	186.87
5	1.952	186.85	185.04	1.150	185.04	185.04	1.140	183.72	183.72	1.173	186.86	186.86	1.184	186.86	186.86	1.161	186.87	186.87
6	1.952	186.85	185.04	1.150	185.04	185.04	1.140	183.72	183.72	1.173	186.86	186.86	1.184	186.86	186.86	1.161	186.87	186.87
7	1.952	186.85	185.04	1.150	185.04	185.04	1.140	183.72	183.72	1.173	186.86	186.86	1.184	186.86	186.86	1.161	186.87	186.87
8	1.952	186.85	185.04	1.150	185.04	185.04	1.140	183.72	183.72	1.173	186.86	186.86	1.184	186.86	186.86	1.161	186.87	186.87
9	1.952	186.85	185.04	1.150	185.04	185.04	1.140	183.72	183.72	1.173	186.86	186.86	1.184	186.86	186.86	1.161	186.87	186.87
10	1.952	186.85	185.04	1.150	185.04	185.04	1.140	183.72	183.72	1.173	186.86	186.86	1.184	186.86	186.86	1.161	186.87	186.87

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 80 ALPHA-MCL = 2.0 PDP RUN.PT 16.08  
 PUN 16 ALPHA-BAR = 1.5 Q-COMP = .32414  
 POINT 14 SIGMA = 135. V-REF = 109.69  
 COMPUTED FREQUENCY = 15.59, K = .1226

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

SLADE NO. 3 4 5 6 7 9

X2:9C5  
 SUCTION

N	CPREAL	CPIMAG
1	.855	-23.043
2	-.422	.439
3	-1.212	-2.137
4	.519	.180
5	.187	.609
6	.125	.084
7	-.018	.141
8	-.018	.010
9	.073	-.077
10	-.001	.088

X2:012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-11.439	12.089	1	11.460	13.994	1	11.863	-12.093
2	-.456	.199	2	.191	.196	2	-.573	.133
3	.379	-.273	3	-.166	-.602	3	-.187	-.780
4	.008	-.214	4	.025	-.192	4	-.040	.049
5	.119	-.025	5	.070	-.144	5	.053	-.225
6	.023	.065	6	-.024	.101	6	-.078	.028
7	-.061	.131	7	-.129	-.063	7	-.160	-.126
8	-.009	-.205	8	.005	-.066	8	-.065	-.048
9	.009	.137	9	.079	.067	9	-.142	-.067
10	-.042	.015	10	-.074	.044	10	.020	-.070

X2:030  
 SUCTION

N	CPREAL	CPIMAG
1	-.514	-8.628
2	-.202	-.064
3	-.167	-.463
4	-.014	.024
5	-.012	.011
6	-.033	-.009
7	-.034	-.024
8	-.025	-.025
9	-.020	-.006
10	-.020	-.006

# OCWT PERIODICITY TEST MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 60 ALPHA-MCL = 2.0 PCP RUN.PT 16.08  
 RUN 16 ALPHA-BAR = .5 O-COMP = .32414  
 POINT 4 SIGMA = 135. V-REF = 199.69  
 COMPUTED FREQUENCY = 15.59, K = .1226

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-5.880	6.736	1	-5.870	6.870	1	4.871	6.563	1	-8.991	7.022	1	4.668	-5.329	1	-6.124	-5.269	
2	-1.085	0.065	2	-1.081	0.062	2	-0.053	1.053	2	-0.037	-0.015	2	-0.235	0.029	2	-0.134	-0.002	
3	0.028	-0.488	3	0.029	-0.502	3	-0.166	-0.593	3	-0.033	-0.035	3	-0.096	-0.758	3	-0.167	-0.084	
4	0.079	0.181	4	0.057	0.157	4	0.012	0.146	4	0.035	0.029	4	-0.012	0.085	4	-0.007	-0.037	
5	-0.014	-0.036	5	-0.015	-0.043	5	-0.012	-0.102	5	0.011	0.052	5	0.058	-0.187	5	-0.089	-0.048	
6	-0.064	0.033	6	-0.025	0.048	6	-0.004	0.048	6	-0.009	-0.043	6	0.025	0.099	6	-0.055	-0.019	
7	-0.062	-0.043	7	-0.051	-0.059	7	-0.025	-0.053	7	-0.067	-0.050	7	-0.065	-0.042	7	-0.073	-0.019	
8	-0.064	-0.070	8	-0.033	0.025	8	-0.018	0.025	8	-0.009	-0.027	8	0.077	-0.042	8	-0.023	-0.064	
9	-0.027	-0.015	9	-0.002	0.002	9	-0.051	0.038	9	-0.021	-0.031	9	-0.020	-0.024	9	-0.025	-0.038	
10	-0.027	-0.015	10	-0.002	0.002	10	-0.051	0.038	10	-0.021	-0.031	10	-0.020	-0.024	10	-0.025	-0.038	
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	8.969	-8.461	1	-8.506	-9.736	1	15.160	3.457	1	15.160	3.457	1	-9.907	10.276	1	7.725	12.998	
2	-0.293	-0.160	2	-0.177	-0.078	2	-0.127	-0.350	2	-0.064	-0.614	2	-0.332	-0.917	2	-0.225	-0.133	
3	-0.480	-0.429	3	-0.162	-0.627	3	-0.064	-0.614	3	-0.021	-0.131	3	-0.007	-0.061	3	-0.276	-0.149	
4	0.022	-0.168	4	0.011	0.088	4	-0.021	-0.131	4	-0.029	-0.026	4	-0.001	0.059	4	-0.025	-0.005	
5	0.002	-0.089	5	0.062	-0.026	5	-0.029	-0.026	5	-0.026	-0.026	5	-0.022	0.014	5	-0.053	-0.005	
6	-0.003	-0.143	6	-0.048	-0.043	6	-0.026	-0.046	6	-0.026	-0.046	6	-0.022	0.014	6	-0.053	-0.005	
7	-0.022	-0.022	7	-0.074	-0.025	7	-0.074	-0.046	7	-0.016	-0.042	7	-0.052	-0.067	7	-0.053	-0.015	
8	-0.007	-0.055	8	-0.013	-0.022	8	-0.016	-0.042	8	-0.049	0.010	8	-0.100	-0.077	8	-0.058	-0.036	
9	0.020	-0.032	9	0.011	-0.013	9	-0.049	0.010	9	-0.049	0.010	9	-0.100	-0.077	9	-0.058	-0.036	
10	0.020	-0.032	10	0.011	-0.013	10	-0.049	0.010	10	-0.049	0.010	10	-0.100	-0.077	10	-0.058	-0.036	

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	.062		.125		.250		.750		.875		.938	
	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL
1	12	134	1	-9.707	1	-6.577	1	-4.203	1	-3.714	1	-2.600
2	193	614	2	0.047	2	-0.064	2	-0.135	2	-0.127	2	-0.098
3	58	840	3	-0.808	3	-0.798	3	-0.077	3	-0.767	3	-0.551
4	134	614	4	0.242	4	0.184	4	0.014	4	-0.159	4	-0.092
5	99	599	5	-0.084	5	-0.035	5	0.051	5	-0.070	5	-0.025
6	107	582	6	-0.068	6	-0.050	6	0.004	6	-0.072	6	-0.011
7	177	601	7	-0.045	7	0.019	7	-0.020	7	-0.062	7	-0.079
8	99	606	8	-0.073	8	-0.052	8	-0.075	8	-0.034	8	-0.032
9	107	601	9	0.021	9	0.016	9	0.015	9	-0.034	9	-0.074
10	107	601	10	-0.060	10	-0.047	10	-0.069	10	-0.034	10	-0.074

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE EC ALPHA-MCL = 2.0 POP RUN-PT 16.08  
 RUN 16 ALPHA-MAR = 1.5 C-COMP = 124.14  
 POINT SIGMA = 115 V-REF = 199.69  
 COMPUTED FREQUENCY = 15.59, K = .1226  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PEP RADIAN \*\*\*

BLADE NO. 3

XE=012  
 SUCTION

9

7

6

5

4

3

XE=012  
 SUCTION

N CP-MAG PHI  
 1 23.059 182.13  
 2 .608 313.89  
 3 2.467 330.04  
 4 .213 57.80  
 5 .801 319.55  
 6 .295 24.25  
 7 .355 293.92  
 8 .321 209.20  
 9 .106 223.34  
 10 .008 281.12

N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI  
 1 17.309 176.37 1 17.941 175.45 1 16.941 182.70 1 18.036 185.69 1 19.146 182.70  
 2 .493 247.56 2 .574 272.69 2 .574 291.11 2 .273 315.73 2 .619 291.11  
 3 .214 267.97 3 .790 211.33 3 .619 254.66 3 .625 299.65 3 .091 97.94  
 4 .122 213.00 4 .064 309.13 4 .064 274.37 4 .160 262.71 4 .076 274.37  
 5 .071 137.15 5 .231 328.15 5 .083 270.38 5 .165 195.76 5 .057 270.38  
 6 .085 163.25 6 .170 370.19 6 .204 244.56 6 .144 170.93 6 .066 265.27  
 7 .129 232.58 7 .081 96.84 7 .071 185.87 7 .066 201.70 7 .071 185.87  
 8 .063 244.56 8 .157 199.68 8 .070 271.17 8 .073 59.14 8 .073 59.14  
 9 .063 244.56 9 .157 199.68 9 .070 271.17 9 .073 59.14 9 .073 59.14  
 10 .063 244.56 10 .157 199.68 10 .070 271.17 10 .073 59.14 10 .073 59.14

XE=012  
 SUCTION

N CP-MAG PHI  
 1 23.059 182.13  
 2 .608 313.89  
 3 2.467 330.04  
 4 .213 57.80  
 5 .801 319.55  
 6 .295 24.25  
 7 .355 293.92  
 8 .321 209.20  
 9 .106 223.34  
 10 .008 281.12

N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI  
 1 17.309 176.37 1 17.941 175.45 1 16.941 182.70 1 18.036 185.69 1 19.146 182.70  
 2 .493 247.56 2 .574 272.69 2 .574 291.11 2 .273 315.73 2 .619 291.11  
 3 .214 267.97 3 .790 211.33 3 .619 254.66 3 .625 299.65 3 .091 97.94  
 4 .122 213.00 4 .064 309.13 4 .064 274.37 4 .160 262.71 4 .076 274.37  
 5 .071 137.15 5 .231 328.15 5 .083 270.38 5 .165 195.76 5 .057 270.38  
 6 .085 163.25 6 .170 370.19 6 .204 244.56 6 .144 170.93 6 .066 265.27  
 7 .129 232.58 7 .081 96.84 7 .071 185.87 7 .066 201.70 7 .071 185.87  
 8 .063 244.56 8 .157 199.68 8 .070 271.17 8 .073 59.14 8 .073 59.14  
 9 .063 244.56 9 .157 199.68 9 .070 271.17 9 .073 59.14 9 .073 59.14  
 10 .063 244.56 10 .157 199.68 10 .070 271.17 10 .073 59.14 10 .073 59.14



# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 80 ALPHA-MCL = 2.0 PGP RUN-PI 16.08  
 RUN 18 ALPHA-GR = 12.414  
 POINT 4 SIGMA = 135.0  
 COMPUTED FREQUENCY = 15.59, K = .1226

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=0.062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	8.941 176.42	6.895 175.12	8.055 189.56	8.996 178.08	7.084 176.22	8.079 175.71
2	.206 245.89	.184 330.88	.117 266.68	.040 201.58	.237 262.97	.131 189.17
3	.488 48.04	.531 340.88	.616 295.40	.640 267.07	.764 277.79	.654 199.84
4	.163 196.31	.074 143.59	.147 265.32	.103 84.94	.086 278.15	.084 174.55
5	.090 154.97	.074 143.59	.112 249.66	.069 104.12	.158 336.70	.096 118.25
6	.015 95.43	.029 28.07	.050 194.16	.040 104.12	.051 85.00	.071 152.59
7	.085 214.52	.026 28.07	.078 244.07	.054 265.54	.130 218.47	.070 194.33
8	.034 177.47	.096 188.42	.059 244.07	.073 287.40	.088 196.47	.075 194.33
9	.030 298.61	.044 138.71	.031 189.20	.029 287.40	.031 320.66	.068 245.03
10	.030 298.61	.016 173.96	.064 53.76	.037 123.69	.031 320.66	.045 33.51
X=0.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	12.344 1.60	12.928 3.46	15.549 12.85	14.274 358.95	15.103 14.02	15.103 14.02
2	.334 298.69	.194 293.79	.372 264.08	.976 31.78	.261 190.01	.261 190.01
3	.958 14.95	.648 300.52	.617 264.08	.976 31.78	.469 258.96	.469 258.96
4	.082 209.28	.069 261.15	.133 330.06	.061 276.97	.131 257.62	.131 257.62
5	.170 142.54	.067 292.03	.072 330.06	.059 324.54	.114 223.63	.114 223.63
6	.069 181.85	.065 312.31	.039 338.32	.078 324.54	.053 263.07	.053 263.07
7	.143 123.85	.116 189.36	.081 245.01	.083 324.54	.098 225.62	.098 225.62
8	.023 184.89	.075 15.39	.081 245.01	.085 324.54	.141 256.24	.141 256.24
9	.025 322.52	.026 15.39	.055 173.44	.051 323.46	.082 27.41	.082 27.41
10	.020 84.52	.017 221.76	.090 173.44	.090 173.44	.149 87.41	.149 87.41

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W9 .938
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	12.143 178.38	9.735 175.69	6.675 170.17	4.572 156.81	3.993 154.80
2	.644 297.45	.302 279.05	.809 260.75	.159 212.60	.058 207.24
3	.802 265.86	.808 270.83	.188 260.75	.899 267.86	.772 274.55
4	.144 103.54	.242 91.79	.104 304.59	.138 312.05	.190 328.72
5	.059 265.39	.084 266.84	.083 142.74	.067 86.99	.073 116.30
6	.045 111.04	.082 123.45	.082 283.37	.087 220.20	.056 278.32
7	.080 165.04	.061 208.71	.082 213.32	.099 330.65	.076 224.55
8	.113 215.74	.039 202.76	.030 302.26	.023 320.65	.117 332.94
9	.073 276.47	.076 142.68	.059 142.26	.078 152.37	.083 152.95
10	.054 161.92	.076 142.68	.059 142.26	.078 152.37	.083 152.95

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE E2 ALPHA-MCL = 2.0 POP RUN.PT 16.10  
 PUN 16 ALPHA-BA = 135.5 C-COMP = .32321  
 POINT 16 SIGMA = 135. V-REF = 199.40  
 COMPUTED FREQUENCY = 19.24, K = .1516

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=C05  
 SUCTION

N	CPREAL	CPIMAG
1	.594	-23.631
2	-.760	-.345
3	-1.298	-.560
4	.371	.429
5	-.224	-.205
6	-.106	-.299
7	.073	.014
8	.010	-.062
9	-.092	-.067
10		

X=C012  
 SUCTION

N	CPREAL	CPIMAG
1	.102	-22.557
2	-.182	-.137
3	-.321	-.137
4	-.284	.299
5	-.319	-.604
6	.341	.012
7	.020	.079
8	-.121	-.056
9	.010	-.142
10	.002	-.021

X=C030  
 SUCTION

N	CPREAL	CPIMAG
1	-.091	-9.699
2	-.018	-.208
3	-.025	.032
4	-.019	.023
5	.042	.020
6	-.047	-.047
7	-.008	-.017
8	-.002	-.013
9	.001	-.016
10		

5

6

7

9

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	12.329	13.339	1	12.402	-1.499	1	12.607	-13.067
2	.487	.408	2	.505	-.561	2	-.449	-.036
3	.084	-.036	3	.198	.178	3	-.033	-.033
4	.084	-.036	4	.113	.156	4	-.033	-.033
5	.050	-.036	5	-.102	-.019	5	-.033	-.033
6	.050	.036	6	-.027	.070	6	-.033	-.033
7	.002	.090	7	-.036	.029	7	-.033	-.033
8	-.010	.047	8	.036	.013	8	.067	-.067
9	-.015	.017	9	.048	.022	9	-.094	-.094
10	-.030	-.009	10	.026	.017	10	-.094	-.094

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	12.329	13.339	1	12.402	-1.499	1	12.607	-13.067
2	.487	.408	2	.505	-.561	2	-.449	-.036
3	.084	-.036	3	.198	.178	3	-.033	-.033
4	.084	-.036	4	.113	.156	4	-.033	-.033
5	.050	-.036	5	-.102	-.019	5	-.033	-.033
6	.050	.036	6	-.027	.070	6	-.033	-.033
7	.002	.090	7	-.036	.029	7	-.033	-.033
8	-.010	.047	8	.036	.013	8	.067	-.067
9	-.015	.017	9	.048	.022	9	-.094	-.094
10	-.030	-.009	10	.026	.017	10	-.094	-.094

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	12.329	13.339	1	12.402	-1.499	1	12.607	-13.067
2	.487	.408	2	.505	-.561	2	-.449	-.036
3	.084	-.036	3	.198	.178	3	-.033	-.033
4	.084	-.036	4	.113	.156	4	-.033	-.033
5	.050	-.036	5	-.102	-.019	5	-.033	-.033
6	.050	.036	6	-.027	.070	6	-.033	-.033
7	.002	.090	7	-.036	.029	7	-.033	-.033
8	-.010	.047	8	.036	.013	8	.067	-.067
9	-.015	.017	9	.048	.022	9	-.094	-.094
10	-.030	-.009	10	.026	.017	10	-.094	-.094



```

22 ALPHA-MCL = 2.0      POP PUN.PT 16.10
16 ALPHA-BAR = .5      G-CUM-P = .73321
6      SIGMA = 135.     K-REF = 199.10
      COMPUTED FREQUENCY= 19.24, V = .1515
FILE RUN POINT

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FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER PACIAN

SLADE NO.

526-1305

6

7

9

5

3

N	CP-MAG	PHI
1	23.838	181.43
2	.815	218.22
3	1.947	315.37
4	.747	49.18
5	.567	319.09
6	.303	42.43
7	.316	340.46
8	.079	10.39
9	.062	189.40
10	.114	36.27

SECTION 012

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	16	175	1	22	189	1	18	508	1	12	181	1	13	157	1	17	103	1	17	103
2	121	171	2	1	137	2	354	109	2	12	309	2	3	152	2	3	267	2	3	267
3	129	166	3	142	163	3	127	107	3	99	131	3	4	154	3	4	191	3	4	191
4	143	162	4	12	132	4	129	104	4	12	171	4	5	152	4	5	174	4	5	174
5	177	157	5	64	135	5	170	109	5	12	253	5	6	162	5	6	208	5	6	208
6	163	160	6	33	145	6	140	102	6	9	102	6	7	160	6	7	175	6	7	175
7	132	172	7	101	136	7	108	102	7	9	153	7	8	152	7	8	187	7	8	187
8	166	163	8	12	143	8	148	103	8	9	125	8	9	162	8	9	190	8	9	190
9	132	172	9	101	136	9	108	102	9	10	125	9	10	127	9	10	166	9	10	166
10	136	176	10	12	143	10	148	103	10	10	125	10	11	127	10	11	183	10	11	183

XE-030  
SUCY 104

N	CP-MAG	PHI
1	9.760	179.45
2	.209	84.96
3	.066	196.79
4	.023	193.73
5	.032	222.76
6	.047	235.18
7	.049	255.47
8	.019	245.26
9	.033	177.34
10	.015	94.19

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 62 ALPHA-MCL = 2.0 POP RUN.PI 16.10  
 PUM 16 ALPHA-REF = 135.0 G-COMP = 32.21  
 POINT 16 SIGMA = 135.0 V-REF = 199.40  
 COMPUTED FREQUENCY = 19.24, K = .1516

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062						
SUCTION						
	N	CP-MAG	PHI	N	CP-MAG	PHI
1	7.638	176.59	179.81	8.051	178.90	185.03
2	.466	156.62	150.61	.163	175.98	182.45
3	.088	277.98	118.25	.065	163.92	205.45
4	.144	299.26	116.36	.045	164.56	195.67
5	.054	29.47	207.85	.080	164.56	133.06
6	.151	57.93	327.53	.054	110.32	133.06
7	.050	159.93	168.53	.021	102.92	36.83
8	.159	173.81	219.43	.007	183.92	23.63
9	.060	254.38	212.03	.035	250.39	28.96
10						
	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.960	358.68	9.75	1.16	388	5.56
2	.469	53.46	24.58	.475	388	282.12
3	.252	53.46	59.89	.344	388	282.12
4	.103	119.47	292.32	.087	388	282.12
5	.233	119.47	35.02	.085	388	282.12
6	.080	320.34	210.00	.037	388	282.12
7	.146	320.34	210.00	.026	388	282.12
8	.002	109.20	307.26	.031	388	282.12
9	.143	325.41	307.26	.024	388	282.12
10	.081	76.47	295.36	.051	388	282.12
	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.960	358.68	9.75	1.16	388	5.56
2	.469	53.46	24.58	.475	388	282.12
3	.252	53.46	59.89	.344	388	282.12
4	.103	119.47	292.32	.087	388	282.12
5	.233	119.47	35.02	.085	388	282.12
6	.080	320.34	210.00	.037	388	282.12
7	.146	320.34	210.00	.026	388	282.12
8	.002	109.20	307.26	.031	388	282.12
9	.143	325.41	307.26	.024	388	282.12
10	.081	76.47	295.36	.051	388	282.12
	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.960	358.68	9.75	1.16	388	5.56
2	.469	53.46	24.58	.475	388	282.12
3	.252	53.46	59.89	.344	388	282.12
4	.103	119.47	292.32	.087	388	282.12
5	.233	119.47	35.02	.085	388	282.12
6	.080	320.34	210.00	.037	388	282.12
7	.146	320.34	210.00	.026	388	282.12
8	.002	109.20	307.26	.031	388	282.12
9	.143	325.41	307.26	.024	388	282.12
10	.081	76.47	295.36	.051	388	282.12
	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.960	358.68	9.75	1.16	388	5.56
2	.469	53.46	24.58	.475	388	282.12
3	.252	53.46	59.89	.344	388	282.12
4	.103	119.47	292.32	.087	388	282.12
5	.233	119.47	35.02	.085	388	282.12
6	.080	320.34	210.00	.037	388	282.12
7	.146	320.34	210.00	.026	388	282.12
8	.002	109.20	307.26	.031	388	282.12
9	.143	325.41	307.26	.024	388	282.12
10	.081	76.47	295.36	.051	388	282.12
	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.960	358.68	9.75	1.16	388	5.56
2	.469	53.46	24.58	.475	388	282.12
3	.252	53.46	59.89	.344	388	282.12
4	.103	119.47	292.32	.087	388	282.12
5	.233	119.47	35.02	.085	388	282.12
6	.080	320.34	210.00	.037	388	282.12
7	.146	320.34	210.00	.026	388	282.12
8	.002	109.20	307.26	.031	388	282.12
9	.143	325.41	307.26	.024	388	282.12
10	.081	76.47	295.36	.051	388	282.12
	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.960	358.68	9.75	1.16	388	5.56
2	.469	53.46	24.58	.475	388	282.12
3	.252	53.46	59.89	.344	388	282.12
4	.103	119.47	292.32	.087	388	282.12
5	.233	119.47	35.02	.085	388	282.12
6	.080	320.34	210.00	.037	388	282.12
7	.146	320.34	210.00	.026	388	282.12
8	.002	109.20	307.26	.031	388	282.12
9	.143	325.41	307.26	.024	388	282.12
10	.081	76.47	295.36	.051	388	282.12
	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.960	358.68	9.75	1.16	388	5.56
2	.469	53.46	24.58	.475	388	282.12
3	.252	53.46	59.89	.344	388	282.12
4	.103	119.47	292.32	.087	388	282.12
5	.233	119.47	35.02	.085	388	282.12
6	.080	320.34	210.00	.037	388	282.12
7	.146	320.34	210.00	.026	388	282.12
8	.002	109.20	307.26	.031	388	282.12
9	.143	325.41	307.26	.024	388	282.12
10	.081	76.47	295.36	.051	388	282.12
	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.960	358.68	9.75	1.16	388	5.56
2	.469	53.46	24.58	.475	388	282.12
3	.252	53.46	59.89	.344	388	282.12
4	.103	119.47	292.32	.087	388	282.12
5	.233	119.47	35.02	.085	388	282.12
6	.080	320.34	210.00	.037	388	282.12
7	.146	320.34	210.00	.026	388	282.12
8	.002	109.20	307.26	.031	388	282.12
9	.143	325.41	307.26	.024	388	282.12
10	.081	76.47	295.36	.051	388	282.12
	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.960	358.68	9.75	1.16	388	5.56
2	.469	53.46	24.58	.475	388	282.12
3	.252	53.46	59.89	.344	388	282.12
4	.103	119.47	292.32	.087	388	282.12
5	.233	119.47	35.02	.085	388	282.12
6	.080	320.34	210.00	.037	388	282.12
7	.146	320.34	210.00	.026	388	282.12
8	.002	109.20	307.26	.031	388	282.12
9	.143	325.41	307.26	.024	388	282.12
10	.081	76.47	295.36	.051	388	282.12
	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.960	358.68	9.75	1.16	388	5.56
2	.469	53.46	24.58	.475	388	282.12
3	.252	53.46	59.89	.344	388	282.12
4	.103	119.47	292.32	.087	388	282.12
5	.233	119.47	35.02	.085	388	282.12
6	.080	320.34	210.00	.037	388	282.12
7	.146	320.34	210.00	.026	388	282.12
8	.002	109.20	307.26	.031	388	282.12
9	.143	325.41	307.26	.024	388	282.12
10	.081	76.47	295.36	.051	388	282.12
	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.960	358.68	9.75	1.16	388	5.56
2	.469	53.46	24.58	.475	388	282.12
3	.252	53.46	59.89	.344	388	282.12
4	.103	119.47	292.32	.087	388	282.12
5	.233	119.47	35.02	.085	388	282.12
6	.080	320.34	210.00	.037	388	282.12
7	.146	320.34	210.00	.026	388	282.12
8	.002	109.20	307.26	.031	388	282.12
9	.143	325.41	307.26	.024	388	282.12
10	.081	76.47	295.36	.051	388	282.12
	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.960	358.68	9.75	1.16	388	5.56
2	.469	53.46	24.58	.475	388	282.12
3	.252	53.46	59.89	.344	388	282.12
4	.103	119.47	292.32	.087	388	282.12
5	.233	119.47	35.02	.085	388	282.12
6	.080	320.34	210.00	.037	388	282.12
7	.146	320.34	210.00	.026	388	282.12
8	.002	109.20	307.26	.031	388	282.12
9	.143	325.41	307.26	.024	388	282.12
10	.081	76.47	295.36	.051	388	282.12
	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.960	358.68	9.75	1.16	388	5.56
2	.469	53.46	24.58	.475	388	282.12
3	.252	53.46	59.89	.344	388	282.12
4	.103	119.47	292.32	.087	388	282.12
5	.233	119.47	35.02	.085	388	282.12
6	.080	320.34	210.00	.037	388	282.12
7	.146	320.34	210.00	.026	388	282.12
8	.002	109.20	307.26	.031	388	282.12
9	.143	325.41	307.26	.024	388	282.12
10	.081	76.47	295.36	.051	388	282.12
	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.960	358.68	9.75	1.16	388	5.56
2	.469	53.46	24.58	.475	388	282.12
3	.252	53.46	59.89	.344	388	282.12
4	.103	119.47	292.32	.087	388	282.12
5	.233	119.47	35.02	.085	388	282.12
6	.080	320.34	210.00	.037	388	282.12
7	.146	320.34	210.00	.026	388	282.12
8	.002	109.20	307.26	.031	388	282.12
9	.143	325.41	307.26	.024	388	282.12
10	.081	76.47	295.36	.051	388	282.12
	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.960	358.68	9.75	1.16	388	5.56
2	.469	53.46	24.58	.475	388	282.12
3	.252	53.46	59.89	.344	388	282.12
4	.103	119.47	292.32	.087	388	2

MODE 2 -- LEAKING EDGE PLANE DATA, WALL STATIONS

FILE 85 ALPHA-MCL = 2.3 POP RUN PT 17.07  
 RUN 17 ALPHA-MCL = 2.3 O-CUMPT = 32966  
 POINT 13 SIGMA = 180. V-REF = 201.41  
 COMPUTED FREQUENCY = 9.14, K = .0713

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
XZ-005 SUCTION						
	N CPREAL CPI MAG	N CPREAL CPI MAG	N CPREAL CPI MAG	N CPREAL CPI MAG	N CPREAL CPI MAG	N CPREAL CPI MAG
1	24.229	2.699	1.19.734	1.18.407	1.14.883	1.17.466
2	-.435	-.588	-.573	-.524	-.816	-.627
3	2.445	.475	1.229	1.224	1.373	-.861
4	-.340	-.097	-.384	-.691	-.670	-.732
5	1.115	-1.027	-.456	-.233	-.220	-.312
6	1.668	.435	.276	-.593	.510	.453
7	.097	-.560	.456	-.205	-.096	-.091
8	-.073	-.236	.221	-.013	-.024	-.124
9	.143	-.305	.143	-.058	.048	-.002
10	-.066	-.112	-.096	-.058	.075	-.122
XZ-012 SUCTION						
	N CPREAL CPI MAG	N CPREAL CPI MAG	N CPREAL CPI MAG	N CPREAL CPI MAG	N CPREAL CPI MAG	N CPREAL CPI MAG
1	22.322	1.647	1.19.734	1.18.407	1.14.883	1.17.466
2	-.420	-.513	-.573	-.524	-.816	-.627
3	.171	1.007	1.229	1.224	1.373	-.861
4	-.422	-.130	-.384	-.691	-.670	-.732
5	.483	.143	.276	-.593	.510	.453
6	.512	-.051	.456	-.205	-.096	-.091
7	-.082	.076	.221	-.013	-.024	-.124
8	.019	.065	.143	-.058	.048	-.002
9	-.037	-.174	-.096	-.058	.075	-.122
10						
XZ-030 SUCTION						
	N CPREAL CPI MAG	N CPREAL CPI MAG	N CPREAL CPI MAG	N CPREAL CPI MAG	N CPREAL CPI MAG	N CPREAL CPI MAG
1	17.276	1.460	1.19.734	1.18.407	1.14.883	1.17.466
2	-.381	-.583	-.573	-.524	-.816	-.627
3	1.688	1.264	1.229	1.224	1.373	-.861
4	-.988	-.108	-.384	-.691	-.670	-.732
5	.143	-.145	.276	-.593	.510	.453
6	.320	.145	.456	-.205	-.096	-.091
7	-.406	-.145	.221	-.013	-.024	-.124
8	.102	-.161	.143	-.058	.048	-.002
9	-.120	-.035	-.096	-.058	.075	-.122
10						

MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 25 ALPHA-MCL = 2.0 POP RUN.PT 17.07  
 PUN 17 ALPHA-BAR = .5 O-CUMF = 32966  
 POINT 3 SIGMA = 180. V-REF = 201.91  
 COMPUTED FREQUENCY = 9.14: K = .0713

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SUCTION	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG
1	6.302	-2.001	8.872	-7.879	0.741	-1.584
2	-565	1.128	1.660	-1.579	1.793	1.135
3	2.054	1.734	1.660	-1.579	1.793	1.135
4	-1.057	-2.312	1.952	1.908	1.793	1.135
5	2.411	1.007	2.69	1.908	1.793	1.135
6	4.119	1.007	2.69	1.908	1.793	1.135
7	4.119	1.007	2.69	1.908	1.793	1.135
8	0.63	1.39	0.66	0.08	0.19	0.35
9	-0.083	1.06	0.07	0.44	0.19	0.35
10	-0.007	0.46	0.09	0.23	0.29	0.087
X=.012 PRESSURE	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG
1	13.133	3.054	13.169	17.365	13.394	2.838
2	-1.192	3.353	2.846	1.170	2.212	2.607
3	2.049	1.912	2.296	2.415	2.131	2.729
4	-1.148	1.157	-1.056	-1.201	-1.128	-2.299
5	1.153	1.472	1.182	1.251	1.378	2.461
6	5.733	0.08	4.25	3.66	3.44	0.027
7	2.56	3.80	2.53	3.66	3.44	0.027
8	-0.55	2.11	-0.07	0.32	0.70	1.54
9	-0.60	0.58	0.44	0.61	0.70	1.54
10	-1.11	0.46	-0.018	0.17	0.16	1.40

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	3	4	5	6	7	9
X=.062	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG
1	10.696	679	4.840	2.506	1.966	1.83
2	-656	2.884	2.769	2.033	1.999	2.937
3	2.153	2.556	2.421	2.719	2.539	2.937
4	-1.032	2.52	-1.257	-1.410	-1.398	2.937
5	6.33	2.34	6.80	3.65	3.48	2.937
6	2.29	3.72	2.42	3.23	2.06	2.937
7	-0.29	1.09	-0.20	0.32	0.03	2.937
8	0.076	1.27	0.07	0.44	0.03	2.937
9	0.000	1.36	0.021	0.08	0.08	2.937
10						2.937
X=.012	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG
1	13.133	3.054	13.169	17.365	13.394	2.838
2	-1.192	3.353	2.846	1.170	2.212	2.607
3	2.049	1.912	2.296	2.415	2.131	2.729
4	-1.148	1.157	-1.056	-1.201	-1.128	-2.299
5	1.153	1.472	1.182	1.251	1.378	2.461
6	5.733	0.08	4.25	3.66	3.44	0.027
7	2.56	3.80	2.53	3.66	3.44	0.027
8	-0.55	2.11	-0.07	0.32	0.70	1.54
9	-0.60	0.58	0.44	0.61	0.70	1.54
10	-1.11	0.46	-0.018	0.17	0.16	1.40

OCWT PERIODICITY TEST  
 MODEL 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 25 ALPHA-MCL = 2.0 POP RUN.PT 17.07  
 RUN 17 ALPHA-BAR = .5 O-COMP = .32966  
 POINT 33 SIGMA = 180. V-REF = 201.41  
 COMPUTED FREQUENCY = 9.14, K = .0713

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

N	CP-MAG	PHI
1	24.179	173.64
2	2.731	233.52
3	2.891	10.99
4	3.351	194.41
5	1.516	317.37
6	7.757	33.07
7	5.63	276.40
8	2.49	108.54
9	3.37	295.11
10	1.30	239.35

X=.012  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	17.042	165.53	1	17.170	170.07	1	17.503	173.40	1	17.503	173.40
2	2.335	192.39	2	2.351	213.48	2	2.351	213.48	2	2.351	213.48
3	1.023	194.98	3	2.351	213.48	3	2.351	213.48	3	2.351	213.48
4	1.123	192.84	4	2.351	213.48	4	2.351	213.48	4	2.351	213.48
5	1.123	192.84	5	2.351	213.48	5	2.351	213.48	5	2.351	213.48
6	1.123	192.84	6	2.351	213.48	6	2.351	213.48	6	2.351	213.48
7	1.123	192.84	7	2.351	213.48	7	2.351	213.48	7	2.351	213.48
8	1.123	192.84	8	2.351	213.48	8	2.351	213.48	8	2.351	213.48
9	1.123	192.84	9	2.351	213.48	9	2.351	213.48	9	2.351	213.48
10	1.123	192.84	10	2.351	213.48	10	2.351	213.48	10	2.351	213.48

X=.030  
 SUCTION

N	CP-MAG	PHI
1	8.531	176.27
2	2.005	146.29
3	2.005	57.55
4	2.005	291.16
5	4.06	291.97
6	4.74	359.69
7	3.14	232.73
8	1.19	84.00
9	0.12	259.37
10	0.12	238.42



# MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 25 ALPHA-MCL = 2.0 PUP RUN-PT 17.07  
 RUN 17 ALPHA-BAR = 3.0 O-COMP = .32966  
 POINT 13 SIGMA = 180. V-REF = 201.41  
 FOURIER COEFFICIENTS, AMPLITUDE 9.14, K = .0713  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	0.540	166.45	1	7.135	177.79	1	8.911	174.84	1	7.882	178.37	1	8.810	169.73	1	8.074	172.99
	2	0.580	167.21	2	7.614	182.56	2	8.911	182.52	2	7.579	186.48	2	8.910	189.56	2	7.739	172.99
	3	2.669	219.69	3	2.396	161.78	3	2.506	228.52	3	2.582	189.48	3	2.083	201.63	3	2.530	204.13
	4	1.355	133.47	4	0.964	166.45	4	1.021	201.90	4	1.980	202.02	4	1.039	207.26	4	2.970	215.31
	5	1.355	133.47	5	0.964	166.45	5	1.021	201.90	5	1.980	202.02	5	1.039	207.26	5	2.970	215.31
	6	0.411	35.32	6	0.482	301.25	6	0.460	131.25	6	0.357	10.25	6	0.345	23.49	6	0.339	24.55
	7	0.513	35.32	7	0.482	301.25	7	0.460	131.25	7	0.357	10.25	7	0.345	23.49	7	0.339	24.55
	8	0.152	65.71	8	0.407	225.80	8	0.118	43.29	8	0.115	234.07	8	0.075	66.46	8	0.060	21.55
	9	0.134	51.46	9	0.086	241.49	9	0.051	56.31	9	0.086	301.03	9	0.075	66.46	9	0.060	21.55
	10	0.046	261.41	10	0.088	250.20	10	0.051	280.08	10	0.124	259.32	10	0.109	285.61	10	0.069	23.52
X=012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	13.484	340.91	1	13.180	357.62	1	17.412	355.77	1	13.691	348.03	1	14.516	357.00	1	14.516	357.00
	2	1.243	196.49	2	0.954	207.57	2	1.241	199.51	2	0.643	170.74	2	1.094	169.59	2	1.094	169.59
	3	2.802	223.01	3	2.970	219.03	3	1.195	140.89	3	1.463	232.01	3	1.195	220.35	3	1.195	220.35
	4	1.154	187.78	4	1.076	191.03	4	1.262	197.84	4	1.167	194.81	4	1.508	195.78	4	1.508	195.78
	5	0.491	105.92	5	0.469	111.06	5	0.440	104.74	5	0.597	129.24	5	0.464	129.24	5	0.464	129.24
	6	0.573	105.92	6	0.469	111.06	6	0.423	104.74	6	0.464	129.24	6	0.293	61.53	6	0.293	61.53
	7	0.459	56.04	7	0.438	53.63	7	0.363	229.57	7	0.293	61.53	7	0.178	120.30	7	0.178	120.30
	8	0.219	104.68	8	0.121	93.13	8	0.081	66.55	8	0.178	120.30	8	0.125	133.19	8	0.125	133.19
	9	0.083	44.29	9	0.085	120.62	9	0.125	229.97	9	0.103	133.19	9	0.141	263.35	9	0.141	263.35
	10	0.120	202.64	10	0.074	255.56	10	0.047	291.42	10	0.141	263.35	10	0.141	263.35	10	0.141	263.35

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	GAP FRACTION	W3	W4	W5	W7	W8	W9
		.062	.125	.250	.500	.875	.938
		N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	10.718	176.37	4.841	2.507	1.975	183.26
2	2	1.101	233.43	3.679	1.007	1.033	183.26
3	3	1.342	204.77	3.630	1.007	1.033	183.26
4	4	1.342	204.77	1.549	1.549	1.578	201.95
5	5	0.503	220.31	3.630	1.549	1.578	201.95
6	6	0.472	231.98	3.193	1.549	1.578	201.95
7	7	0.113	104.96	2.397	0.726	0.648	217.81
8	8	0.148	300.80	3.059	0.478	0.460	217.81
9	9	0.136	270.10	1.121	0.478	0.460	217.81
10	10						217.81

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 87 ALPHA-WCL = 2.0 PCP PUN.PI 17.09  
 PUY 17 ALPHA-BAR = 190.5 O-COMP = 327.46  
 POINT SIGMA = 190. V-REF = 200.72

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=0.005  
 SUCTION

9

7

6

5

4

3

N	CPREAL	CPIMAG
1-24	.370	3.846
2	.015	.198
3	1.154	-1.075
4	-.057	-.011
5	.447	-.708
6	.133	-.023
7	.161	-.434
8	.039	.034
9	.012	.024
10	.073	.005

X=0.012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	17.333	-.4	15	1-23	.019	3	.022	1	19.757	-1.949	1	18.646	2.294	1	18.897	-3.154	1	17.632	-1.945													
2	-.062	.211	16	2	.117	4	.121	2	-.135	.200	2	.017	-.046	2	-.444	-.019	2	-.469	-.159													
3	.418	-.122	17	3	1.131	5	.605	3	-.125	.196	3	-.078	-.044	3	-.251	-.170	3	-.094	-.136													
4	-.218	.339	18	4	-.033	6	.323	4	-.303	-.067	4	-.260	.027	4	-.297	-.190	4	-.332	-.081													
5	-.025	.359	19	5	-.057	7	.679	5	-.141	-.074	5	-.105	.055	5	-.095	-.020	5	-.326	-.060													
6	-.061	.244	20	6	-.053	8	-.062	6	-.129	-.019	6	.045	-.017	6	.006	-.101	6	.070	-.048													
7	-.079	.014	21	7	-.158	9	.159	7	.044	.018	7	.066	-.011	7	.036	-.077	7	.054	-.042													
8	-.047	.245	22	8	-.026	10	.159	8	-.021	.010	8	-.003	.110	8	.033	-.077	8	.043	-.017													
9	-.021	.111	23	9	-.039	10	-.046	9	-.021	.015	9	.067	-.017	9	.041	-.025	9	.043	-.003													
10	-.021	.071	24	10	-.039	10	-.046	10	-.021	.015	10	.067	-.017	10	.041	-.025	10	.043	-.003													

X=0.030  
 SUCTION

N	CPREAL	CPIMAG
1	-.8	.732
2	-.058	.662
3	-.422	.171
4	-.312	.179
5	-.004	.040
6	-.001	.022
7	-.053	.012
8	-.012	.003
9	-.007	.070
10	.049	.005

FILE  
FRONT  
POINT

PHA-MCL = 2.0 POP RUN:PT 17.09  
PHA-BAR = .5 Q-COMP = 327.6  
SIGMA = 180. V-REF = 200.72  
FREQUENCY = 15.57, K = .1218

FOURIER COEFFICIENTS, REAL & IMAGINARY

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
COMPUTED[illegible]

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 0.062			W4 0.125			W5 0.250			W7 0.750			W8 0.875			W9 0.938		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1-10	730	1.865	1.235	1	235	1.235	1	235	1.235	1	235	1.235	1	235	1.235	1	235	1.235
2	730	1.352	0.022	2	330	0.022	2	330	0.022	2	330	0.022	2	330	0.022	2	330	0.022
3	730	0.672	0.030	3	030	0.030	3	030	0.030	3	030	0.030	3	030	0.030	3	030	0.030
4	730	0.335	0.056	4	056	0.056	4	056	0.056	4	056	0.056	4	056	0.056	4	056	0.056
5	730	0.072	0.136	5	136	0.136	5	136	0.136	5	136	0.136	5	136	0.136	5	136	0.136
6	730	0.015	0.005	6	005	0.005	6	005	0.005	6	005	0.005	6	005	0.005	6	005	0.005
7	730	0.009	0.013	7	013	0.013	7	013	0.013	7	013	0.013	7	013	0.013	7	013	0.013
8	730	0.014	0.001	8	001	0.001	8	001	0.001	8	001	0.001	8	001	0.001	8	001	0.001
9	730	0.017	0.015	9	015	0.015	9	015	0.015	9	015	0.015	9	015	0.015	9	015	0.015
10	730	0.017	0.038	10	038	0.038	10	038	0.038	10	038	0.038	10	038	0.038	10	038	0.038
		0.017	0.020		020	0.020		020	0.020		020	0.020		020	0.020		020	0.020

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 87 ALPHA-MCL = 2.0 POP RUN,PT 17.09  
 RUN 17 ALPHA-BAR = .5 O-COMP = .32746  
 POINT 5 SIGMA = 180. V-REF = 200.72  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
 COMPUTED FREQUENCY = 15.57, K = .1218  
 C UNBIASED PHASE ANGLE

BLADE NO.

XE=005  
 SUCTION

9

7

6

5

3

N	CP-MAG	PHI
1	24.673	171.03
2	1.186	185.30
3	1.577	317.08
4	.058	169.05
5	.915	299.23
6	.142	21.75
7	.494	291.48
8	.068	30.32
9	.027	63.90
10	.071	4.18

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	17.820	166.58	1	17.820	166.58	1	17.820	166.58	1	17.820	166.58	1	17.820	166.58
2	.220	106.29	2	.220	106.29	2	.220	106.29	2	.220	106.29	2	.220	106.29
3	.429	166.91	3	.429	166.91	3	.429	166.91	3	.429	166.91	3	.429	166.91
4	.250	209.15	4	.250	209.15	4	.250	209.15	4	.250	209.15	4	.250	209.15
5	.348	282.53	5	.348	282.53	5	.348	282.53	5	.348	282.53	5	.348	282.53
6	.065	64.39	6	.065	64.39	6	.065	64.39	6	.065	64.39	6	.065	64.39
7	.091	46.39	7	.091	46.39	7	.091	46.39	7	.091	46.39	7	.091	46.39
8	.062	19.78	8	.062	19.78	8	.062	19.78	8	.062	19.78	8	.062	19.78
9	.062	133.00	9	.062	133.00	9	.062	133.00	9	.062	133.00	9	.062	133.00
10	.024	207.90	10	.024	207.90	10	.024	207.90	10	.024	207.90	10	.024	207.90

XE=030  
 SUCTION

N	CP-MAG	PHI
1	8.821	171.89
2	.624	185.02
3	.455	157.90
4	.359	209.93
5	.041	101.65
6	.022	92.48
7	.054	347.61
8	.012	192.68
9	.071	43.06
10	.048	253.71

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 87 ALPHA-MCL = 2.0 PUP PUN-PT 17.09  
 PUN 17 ALPHA-BAR = 0.5 O-COMP = 127.46  
 POINT 15 SIGMA = 180.0 V-REF = 200.72  
 COMPUTED FREQUENCY = 15.57, K = 1219  
 FOURIER COEFFICIENTS, AMPLITUDE UNBIASED PHASE ANGLE

\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	8.522 169.779	7.379 172.89	8.903 177.00	8.020 173.10	9.902 172.15	8.041 175.68
2	.410 197.774	.418 100.26	.374 109.53	.292 103.15	.395 132.54	.337 148.51
3	.254 172.112	.212 167.25	.062 128.93	.231 168.59	.168 220.96	.037 207.92
4	.191 195.44	.232 191.24	.253 190.60	.071 181.99	.263 200.14	.203 211.21
5	.277 285.41	.138 110.26	.131 112.44	.100 127.81	.257 322.90	.043 334.67
6	.078 80.26	.026 126.56	.022 180.87	.009 359.91	.025 197.00	.060 204.95
7	.018 71.66	.091 338.78	.094 186.15	.075 359.91	.097 146.51	.034 319.30
8	.085 33.50	.011 106.07	.025 151.52	.011 84.56	.072 254.86	.034 319.30
9	.085 193.14	.060 86.92	.031 294.07	.077 100.56	.072 254.86	.034 319.30
10	.023 318.02	.029 7.20	.014 131.40	.028 349.47	.030 8.21	.034 319.30
X=.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	13.894 346.33	13.732 355.83	13.732 355.83	17.274 355.75	13.609 345.13	15.264 354.40
2	.604 192.47	.393 206.08	.393 206.08	.477 195.92	1.010 234.16	.521 109.15
3	.514 355.50	.144 193.43	.144 193.43	.205 211.25	.266 234.16	.476 133.86
4	.248 167.79	.130 271.50	.130 271.50	.193 168.16	.087 204.62	.107 190.71
5	.670 150.81	.114 271.50	.114 271.50	.112 168.16	.113 204.62	.107 190.71
6	.065 239.32	.006 141.05	.006 141.05	.067 226.93	.020 165.76	.097 118.22
7	.122 206.32	.010 161.05	.010 161.05	.067 226.93	.155 223.53	.097 118.22
8	.042 113.94	.037 153.77	.037 153.77	.343 27.71	.039 140.09	.033 128.56
9	.111 281.18	.082 268.00	.082 268.00	.032 210.82	.125 333.60	.085 331.46
10	.036 18.32	.048 356.88	.048 356.88	.032 210.82	.029 257.17	.046 356.88

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	3	4	5	6	7	9
X=.062	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	10.894 170.34	8.170 171.31	5.000 169.48	2.707 166.67	2.216 167.33	2.220 166.53
2	.425 235.89	.095 165.08	.422 195.61	.456 166.21	.465 167.27	.470 168.13
3	.137 151.01	.274 18.44	.061 136.22	.318 166.21	.027 152.08	.339 123.42
4	.319 175.91	.182 168.16	.292 179.55	.147 122.03	.295 183.39	.309 180.57
5	.119 125.16	.171 171.77	.130 171.55	.163 163.50	.140 183.27	.124 189.77
6	.013 165.88	.034 19.81	.043 172.51	.082 163.71	.019 188.88	.008 264.05
7	.036 169.13	.015 175.64	.098 193.71	.026 124.75	.097 22.75	.103 263.78
8	.077 169.13	.015 133.43	.089 117.85	.088 120.31	.013 195.80	.021 263.78
9	.098 112.68	.030 132.81	.014 101.85	.035 156.04	.099 132.07	.067 139.52
10	.026 140.24	.030 132.81	.014 101.85	.035 156.04	.014 132.07	.019 139.52
X=.026	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	10.894 170.34	8.170 171.31	5.000 169.48	2.707 166.67	2.216 167.33	2.220 166.53
2	.425 235.89	.095 165.08	.422 195.61	.456 166.21	.465 167.27	.470 168.13
3	.137 151.01	.274 18.44	.061 136.22	.318 166.21	.027 152.08	.339 123.42
4	.319 175.91	.182 168.16	.292 179.55	.147 122.03	.295 183.39	.309 180.57
5	.119 125.16	.171 171.77	.130 171.55	.163 163.50	.140 183.27	.124 189.77
6	.013 165.88	.034 19.81	.043 172.51	.082 163.71	.019 188.88	.008 264.05
7	.036 169.13	.015 175.64	.098 193.71	.026 124.75	.097 22.75	.103 263.78
8	.077 169.13	.015 133.43	.089 117.85	.088 120.31	.013 195.80	.021 263.78
9	.098 112.68	.030 132.81	.014 101.85	.035 156.04	.099 132.07	.067 139.52
10	.026 140.24	.030 132.81	.014 101.85	.035 156.04	.014 132.07	.019 139.52

MODE 2 -- LEADING EDGE PLANE DATA, HULL STATIONS

FILE 89 ALPHA-MCL = 2.0 POP RUN.PT 17.11  
 RUN 17 ALPHA-BAR = .5 O-COMP = .32862  
 POINT 17 SIGMA = 180. V-REF = 201.09  
 COMPUTED FREQUENCY = 19.24, K = .1503

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE:005  
 SUCTION

N CPREAL CPIMAG  
 1-25.045 4.861  
 2 .658 -.874  
 3 -1.364 .015  
 4 .252 -.904  
 5 -.037 -.025  
 6 .134 -.297  
 7 .029 .011  
 8 -.015 -.069  
 9 .026 .012  
 10

XE:012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	16.666	-4.029	1	23.995	3.733	1	20.052	-2.569	1	18.969	2.355
2	.208	-.017	2	-.669	-1.046	2	.286	-.870	2	-.257	-1.042
3	.467	-.224	3	-.593	.632	3	.115	.634	3	-.259	-.256
4	.052	-.205	4	-.274	.515	4	.060	.131	4	-.219	-.105
5	-.183	.261	5	.086	.140	5	-.248	.029	5	-.037	-.055
6	-.007	-.000	6	.009	.132	6	-.021	.043	6	-.037	-.043
7	-.141	.047	7	.009	.078	7	-.006	.044	7	-.122	-.131
8	-.024	-.006	8	-.030	.011	8	.009	.090	8	-.122	-.122
9	-.087	-.006	9	-.006	.030	9	.037	-.019	9	-.078	-.079
10	-.025	-.065	10	-.006	.052	10	.037	-.018	10	-.036	-.106

XE:030  
 SUCTION

N CPREAL CPIMAG  
 1-8.856 1.242  
 2 .688 -.182  
 3 -.491 .391  
 4 -.022 -.091  
 5 -.070 .035  
 6 .037 .008  
 7 .045 .004  
 8 .012 .003  
 9 -.028 .005  
 10

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 89 ALPHA-MCL = 2.0 PUP RUN-PT 17.11  
 RUN 17 ALPHA-BAR = 3.262  
 POINT 17 SIGMA = 180.5  
 COMPUTED FREQUENCY = 19.24. K = .1503

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9						
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	8	.053	-1.701	1	.736	-1.040	1	8	.160	1	7	.936
2	8	.265	-1.848	2	.696	-.773	2	.350	-.822	2	7	.397
3	8	.179	-1.350	3	.495	-.442	3	.206	-.244	3	7	-.073
4	8	.186	-.250	4	.255	.039	4	-.218	.050	4	7	-.044
5	8	-.221	.010	5	.088	.078	5	-.155	.037	5	7	-.009
6	8	-.068	.016	6	.004	.029	6	-.021	.024	6	7	-.008
7	8	-.037	.001	7	.013	.031	7	-.039	.008	7	7	-.001
8	8	-.037	.001	8	.013	.031	8	-.039	.008	8	7	-.001
9	8	.114	-.004	9	.021	.036	9	-.039	.008	9	7	-.011
10	8	-.010	-.113	10	.008	-.004	10	-.001	-.039	10	7	-.010
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	13	.418	2.104	1	.720	-1.242	1	17	.242	1	15	.289
2	13	.016	-1.346	2	.312	-1.122	2	.136	-1.338	2	15	.494
3	13	.346	-.292	3	.050	.144	3	.122	-.281	3	15	.216
4	13	.007	-.096	4	.191	-.078	4	.044	-.044	4	15	.069
5	13	.045	-.030	5	.032	-.033	5	.078	-.041	5	15	.009
6	13	.125	-.103	6	.017	-.029	6	.031	-.031	6	15	.016
7	13	.000	-.016	7	.041	-.004	7	.006	-.049	7	15	.025
8	13	.103	.032	8	.073	.006	8	.006	.007	8	15	.033
9	13	.016	.043	9	.014	-.006	9	.004	-.030	9	15	-.009
10	13	.016	.043	10	.014	-.006	10	.006	-.030	10	15	-.009

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938								
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG						
1	-10	.979	-1.748	1	.488	-1.488	1	2	.233	-1.281	1	2	.233	-1.281
2	-10	.352	-1.471	2	.369	-1.058	2	10	.463	-1.100	2	10	.463	-1.100
3	-10	.330	-.058	3	.128	.064	3	10	.154	.265	3	10	.154	.265
4	-10	.331	-.058	4	.368	.031	4	10	.288	.109	4	10	.288	.109
5	-10	.142	-.025	5	.190	-.035	5	10	.157	.040	5	10	.157	.040
6	-10	.0625	-.004	6	.040	.033	6	10	.099	.059	6	10	.099	.059
7	-10	.016	-.004	7	.033	.030	7	10	.030	.022	7	10	.030	.022
8	-10	.032	-.004	8	.029	-.070	8	10	.003	.013	8	10	.003	.013
9	-10	.032	-.004	9	.021	-.041	9	10	.004	.062	9	10	.004	.062
10	-10	.032	-.004	10	.045	-.031	10	10	.002	.013	10	10	.002	.013

C-2

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 89 ALPHA-MCL = 2.0 PDP RUN-PT 17.11  
 RUN 17 ALPHA-BAR = .5 O-COMP = .32862  
 POINT 17 SIGMA = 180. V-REF = 201.09  
 COMPUTED FREQUENCY = 19.24, K = .1503

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=COS  
 SUCTION

N	CP-MAG	PHI
1	25.512	169.02
2	1.094	306.96
3	1.558	298.88
4	.076	168.42
5	.939	285.61
6	.037	167.01
7	.326	294.23
8	.071	221.23
9	.071	257.92
10	.029	25.82

X=C12  
 SUCTION

N	CP-MAG	PHI
1	17.146	166.41
2	.940	282.77
3	.514	205.63
4	.219	284.33
5	.319	305.06
6	.012	54.04
7	.145	13.53
8	.053	117.27
9	.087	117.90
10	.070	249.13

X=C030  
 SUCTION

N	CP-MAG	PHI
1	.943	172.02
2	.711	345.14
3	.628	141.46
4	.094	256.35
5	.081	209.41
6	.051	43.90
7	.046	10.58
8	.012	18.58
9	.024	186.88
10	.006	301.01

9

7

6

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4

3

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	17.146	166.41	1	19.114	172.92	1	19.243	170.27	1	17.714	172.69
2	.940	282.77	2	1.074	283.87	2	.699	260.69	2	.797	289.34
3	.514	205.63	3	.357	134.27	3	.469	237.19	3	.040	134.04
4	.219	284.33	4	.279	222.03	4	.070	97.48	4	.159	102.48
5	.319	305.06	5	.225	193.31	5	.343	205.12	5	.368	122.83
6	.012	54.04	6	.105	131.58	6	.137	52.02	6	.059	140.11
7	.145	13.53	7	.057	276.41	7	.166	250.91	7	.112	113.11
8	.053	117.27	8	.029	206.56	8	.129	225.23	8	.016	141.85
9	.087	117.90	9	.046	250.78	9	.110	288.86	9	.055	208.74
10	.070	249.13	10	.056	333.11	10	.110	288.86	10	.024	208.74



# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 89 ALPHA-MCL = 2.0 POP RUN-PT 17.11  
 RUN 17 ALPHA-SAR = 10.5 OCOMP = 32.62  
 POINT 17 SIGMA = 180.0 VREF = 201.09  
 COMPUTED FREQUENCY = 19.24, K = .1503  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	8.231 168.08	1 7.653 174.48	1 9.013 173.37	1 8.188 175.25	1 3.739 169.97	1 7.994 173.05
2	.888 242.38	.834 305.45	.839 292.88	.893 293.09	.730 268.11	.687 308.29
3	.391 309.77	.357 335.59	.443 273.61	.319 130.81	.321 262.27	.074 350.93
4	.282 321.50	.190 346.19	.149 15.29	.224 193.82	.160 37.07	.171 74.98
5	.019 58.54	.015 168.49	.189 335.76	.159 193.62	.253 33.15	.238 22.48
6	.102 48.30	.053 106.91	.036 52.34	.44 144.20	.077 193.56	.054 100.09
7	.043 210.67	.009 86.61	.087 287.35	.012 130.65	.078 250.39	.088 138.54
8	.114 178.08	.002 229.50	.021 119.00	.011 225.50	.035 219.31	.058 188.20
9	.113 264.90	.010 126.15	.038 347.29	.036 268.29	.062 282.07	.017 233.11
10						
X=.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	13.582 351.39	13.982 357.05	17.395 352.39	13.345 352.39	13.345 348.21	15.305 351.44
2	1.347 328.46	1.317 327.70	1.306 325.80	1.306 325.80	1.306 325.80	1.306 325.80
3	.401 329.68	.327 324.26	.306 342.98	.306 342.98	.306 342.98	.306 342.98
4	.096 85.97	.034 352.62	.088 152.06	.088 152.06	.088 152.06	.088 152.06
5	.054 326.34	.024 352.62	.046 222.91	.046 222.91	.046 222.91	.046 222.91
6	.162 219.46	.057 245.14	.057 245.14	.057 245.14	.057 245.14	.057 245.14
7	.108 342.78	.077 221.79	.062 277.28	.062 277.28	.062 277.28	.062 277.28
8	.046 69.50	.021 221.79	.039 277.28	.039 277.28	.039 277.28	.039 277.28
9						
10						

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO: GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	11.118 170.95	8.411 174.22	5.028 175.05	2.719 181.23	2.350 187.18	2.271 185.44
2	.532 281.13	.410 293.89	.332 326.90	1.329 326.90	1.350 326.90	1.350 326.90
3	.336 350.05	.312 373.94	.297 390.79	.227 416.82	.253 425.88	.289 435.72
4	.141 21.79	.192 189.42	.195 190.79	.176 191.63	.164 196.66	.147 196.66
5	.067 184.66	.054 448.09	.076 332.79	.023 32.31	.071 122.46	.055 136.27
6	.045 281.77	.039 145.20	.031 135.57	.022 163.78	.041 175.24	.035 192.63
7	.087 234.60	.031 275.51	.018 251.20	.019 240.60	.020 248.97	.017 248.97
8	.073 244.12	.051 246.32	.035 240.60	.013 253.69	.014 261.30	.025 270.47
9						
10						

TABLE 9

MODE 2 DATA FOR  $\alpha_{MCL} = 2 \text{ deg}$ ,  $\bar{\alpha} = 2 \text{ deg}$ 

<u><math>\sigma</math> (deg)</u>	<u>k</u>	<u>page</u>
-135	.0713	508
"	.1219	512
"	.1516	516
-90	.0722	520
"	.1214	524
"	.1493	528
-45	.0707	532
"	.1220	536
"	.1506	540
0	.0723	544
"	.1223	548
"	.1491	552
45	.0723	556
"	.1217	560
"	.1513	564
90	.0719	568
"	.1219	572
"	.1506	576
135	.0722	580
"	.1223	584
"	.1512	588
180	.0720	592
"	.1218	596
"	.1503	600

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MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 33 ALPHA-MCL = 2.0 PDP RUN PT 8.04  
 RUN 8 ALPHA-BAR = 3.0 O-COMP = .32629  
 POINT 2 SIGMA = -135. V-REF = 200.32  
 COMPUTED FREQUENCY = 9.09, K = .0713

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=Q05  
 SUCTION

9

7

6

5

4

3

N	CPREAL	CPIMAG
1	7.402	26.401
2	-.078	-.240
3	-1.809	-.852
4	-.1875	-.326
5	-.109	-.014
6	-.749	-.140
7	-.345	-.325
8	-.061	-.546
9	-.061	-.125
10		

X=Q12  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	5.626	23.386	1	10.494	-15.727	1	24.033	6.275	1	33.3	16.867
2	3.781	4.414	2	-1.379	-.088	2	-2.535	-.275	2	-2.471	1.743
3	.012	-.294	3	-.062	-.056	3	-.559	-.659	3	-1.100	-.047
4	-.867	-.213	4	.031	-.116	4	-.699	-.255	4	-.399	-.102
5	-.936	-.098	5	-.025	-.075	5	-.045	-.074	5	-.071	-.075
6	-.397	-.316	6	.030	-.098	6	-.042	-.073	6	-.071	-.194
7	-.224	-.349	7	.185	-.042	7	-.042	-.073	7	-.071	-.194
8	.085	-.087	8	-.138	-.056	8	-.042	-.073	8	-.071	-.194
9	.013	-.166	9	.012	-.056	9	-.042	-.073	9	-.071	-.194
10			10			10			10		

X=Q30  
 SUCTION

N	CPREAL	CPIMAG
1	1.607	7.966
2	-.092	-.322
3	-.325	-.089
4	.101	-.017
5	.057	-.020
6	-.051	-.004
7	-.039	-.004
8		
9		
10		

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 33 ALPHA-MCL = 2.0 POP RUN-PI 8.04  
 POINT 2 ALPHA-BAK = 32629  
 COMPUTED SIGMA = 135.0  
 V-REF = 200.32  
 FREQUENCY = 9.09, K = .0713

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3			4			5			6			7			9														
X=062 SUCTION			N			CPREAL			CPIMAG			N			CPREAL			CPIMAG			N			CPREAL			CPIMAG		
1	-6.349	-4.389	1	1.160	7.207	1	4.473	-6.265	1	-7.471	1.327	1	6.615	4.817	1	-3.952	5.995												
2	-0.010	-0.178	2	-0.355	-0.211	2	-0.287	-0.247	2	-0.000	-0.234	2	-0.238	-0.327	2	0.024	-0.141												
3	-0.183	-0.061	3	-0.112	-0.100	3	-0.089	-0.089	3	-0.235	-0.086	3	-0.166	-0.059	3	0.153	-0.219												
4	-0.124	-0.034	4	-0.030	-0.008	4	-0.085	-0.039	4	-0.166	0.000	4	-0.029	-0.018	4	0.020	-0.017												
5	-0.055	-0.009	5	-0.035	-0.022	5	-0.054	-0.020	5	-0.021	0.014	5	-0.039	-0.019	5	0.003	-0.000												
6	-0.055	0.000	6	0.018	-0.041	6	-0.068	-0.023	6	0.053	-0.063	6	-0.043	-0.017	6	0.003	-0.005												
7	-0.016	0.068	7	0.044	-0.014	7	-0.010	-0.049	7	-0.008	-0.033	7	-0.043	-0.015	7	0.008	-0.005												
8	-0.025	-0.031	8	-0.015	-0.003	8	-0.033	-0.004	8	-0.001	-0.014	8	-0.016	-0.012	8	0.006	-0.015												
9	-0.025	-0.031	9	-0.015	-0.003	9	-0.033	-0.004	9	-0.001	-0.014	9	-0.016	-0.012	9	0.006	-0.015												
10	-0.013	-0.029	10	-0.026	-0.013	10	-0.024	-0.004	10	-0.008	-0.008	10	-0.048	-0.022	10	0.006	-0.019												

X=012 PRESSURE			N			CPREAL			CPIMAG			N			CPREAL			CPIMAG			N			CPREAL			CPIMAG		
1	12.641	6.518	1	-6.774	11.821	1	15.272	-4.728	1	-17.688	-8.640	1	17.355	-20.604															
2	-0.883	-0.794	2	-1.345	-0.988	2	-1.149	-1.770	2	-1.149	-1.770	2	10.034	-12.872															
3	-0.272	-0.008	3	-0.259	-0.029	3	-0.240	-0.070	3	-0.240	-0.070	3	1.034	-0.806															
4	-0.168	-0.067	4	-0.168	-0.005	4	-0.168	-0.005	4	-0.168	-0.005	4	1.509	-0.806															
5	-0.079	-0.025	5	-0.059	-0.039	5	-0.040	-0.021	5	-0.040	-0.021	5	-	-															
6	-0.166	-0.055	6	-0.177	-0.022	6	-0.168	-0.022	6	-0.168	-0.022	6	1.690	-0.762															
7	-0.086	-0.035	7	-0.099	-0.011	7	-0.099	-0.011	7	-0.099	-0.011	7	0.267	-0.185															
8	-0.044	-0.025	8	-0.044	-0.011	8	-0.044	-0.011	8	-0.044	-0.011	8	0.267	-0.185															
9	-0.079	-0.025	9	-0.099	-0.011	9	-0.099	-0.011	9	-0.099	-0.011	9	0.267	-0.185															
10	-0.044	-0.025	10	-0.044	-0.011	10	-0.044	-0.011	10	-0.044	-0.011	10	0.267	-0.185															

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. AP. FRACTION	N3 :062					N4 :125					N5 :250					N7 :750					N8 :875					N9 :938				
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG						
1	-10	-0.510	2	276	1	-10	-0.006	1	520	1	-5	190	-3	040	-3	040	1	-2	871	1	-2	756	1	-2	756					
2	-1	-0.245	3	371	2	-9	-0.963	2	438	2	-159	-1	14	-1	14	-1	14	2	-1	171	2	-1	212	2	-1	212				
3	2	0.038	4	613	3	0	-0.008	3	131	3	-249	-2	19	-2	19	-2	19	3	-1	137	3	-1	039	3	-1	039				
4	3	0.138	5	111	4	1	-0.067	4	105	4	-316	-3	05	-3	05	-3	05	4	-1	141	4	-1	066	4	-1	066				
5	4	0.130	6	012	5	2	-0.023	5	140	5	-117	-4	04	-4	04	-4	04	5	-1	141	5	-1	037	5	-1	037				
6	5	0.065	7	044	6	3	-0.023	6	069	6	-048	-5	00	-5	00	-5	00	6	-1	141	6	-1	043	6	-1	043				
7	6	0.016	8	052	7	4	-0.024	7	071	7	-004	-6	00	-6	00	-6	00	7	-1	141	7	-1	008	7	-1	008				
8	7	-0.007	9	050	8	5	-0.011	8	052	8	-023	-7	00	-7	00	-7	00	8	-1	141	8	-1	008	8	-1	008				
9	8	-0.016	10	050	9	6	-0.011	9	052	9	-023	-8	00	-8	00	-8	00	9	-1	141	9	-1	008	9	-1	008				
10	9	-0.007			10					10	-023	-9	00	-9	00	-9	00	10	-1	141	10	-1	008	10	-1	008				

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 33 ALPHA-MCL = 2.0 POP RUN PI 8.04  
 RUN 8 ALPHA-BAR = 2.0 G-COMP = .32629  
 POINT 2 SIGMA = -135. V-REF = 200.32  
 COMPUTED FREQUENCY = 9.09, K = .0713  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3  
 X=.005  
 SUCTION

N	CP-MAG	PHI
1	27.419	164.34
2	253	71.99
3	2.000	115.21
4	.934	200.43
5	.110	277.56
6	.761	169.40
7	.524	221.13
8	.233	105.29
9	.548	184.78
10	.139	296.07

X=.012	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
SUCTION	1	24.428	165.02	1	18.907	168.71	1	24.833	165.42	1	21.445	166.36
	2	5.726	334.79	2	1.385	264.78	2	.963	229.56	2	3.967	235.17
	3	1.160	313.26	3	1.107	190.37	3	.724	224.44	3	1.499	235.17
	4	.713	191.93	4	.064	241.49	4	.647	271.17	4	.845	27.10
	5	1.041	276.82	5	.119	302.77	5	.700	271.17	5	.405	86.10
	6	.435	153.83	6	.084	333.28	6	.087	258.85	6	.332	167.29
	7	.114	194.88	7	.100	214.46	7	.428	227.78	7	.058	159.84
	8	.246	314.87	8	.195	341.49	8	.175	335.29	8	.048	109.34
	9	.081	44.74	9	1.80	54.70	9	.207	207.10	9	.217	177.09
	10	.136	234.74	10	.058	168.00	10	.327	279.32	10	.099	286.00

X=.230  
 SUCTION

N	CP-MAG	PHI
1	8.127	168.60
2	.335	106.48
3	.275	357.97
4	.103	80.66
5	.113	239.60
6	.051	152.48
7	.044	34.67
8	.034	36.15
9	.034	36.15
10	.034	36.15

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 33 ALPHA-MCL = 2.0 POP RUN-PT 8.08  
 RUN 8 ALPHA-BAR = 2.0 Q-COMP = 3268  
 POINT 2 SIGMA = -135. V-REF = 200.32  
 COMPUTED FREQUENCY = 9.09, M = .0713  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
X=062 SUCTION	1	7.719	169.65	1	7.300	170.86	1	7.698	170.53	1	7.588	169.93	1	8.181	171.00	1	7.181	169.39
	2	1.178	183.21	2	.213	196.67	2	.250	8.30	2	.234	270.05	2	.404	216.12	2	.193	169.39
	3	.265	191.22	3	.368	105.99	3	.301	152.28	3	.250	200.05	3	.234	216.12	3	.193	169.39
	4	.139	153.01	4	.122	336.65	4	.093	155.49	4	.166	150.14	4	.171	216.12	4	.153	169.39
	5	.041	110.81	5	.031	225.77	5	.024	318.06	5	.028	150.63	5	.015	165.26	5	.023	169.39
	6	.008	141.46	6	.045	203.94	6	.061	116.50	6	.090	353.28	6	.152	165.26	6	.053	169.39
	7	.055	76.67	7	.046	18.28	7	.050	100.97	7	.063	396.28	7	.072	138.67	7	.046	169.39
	8	.069	188.26	8	.017	30.37	8	.071	100.97	8	.034	252.81	8	.020	138.67	8	.003	169.39
	9	.032	188.26	9	.029	334.36	9	.025	279.46	9	.014	287.81	9	.020	138.67	9	.003	169.39
	10			10			10			10			10			10		
X=012 PRESSURE	1	14.223	342.28	1	13.625	344.81	1	13.625	344.81	1	15.987	342.80	1	19.686	341.03	1	23.374	342.80
	2	1.178	225.06	2	1.577	235.99	2	1.700	235.99	2	1.250	233.37	2	1.250	233.37	2	1.366	233.37
	3	.174	165.05	3	.277	170.20	3	.277	170.20	3	.250	200.05	3	1.250	233.37	3	1.366	233.37
	4	.104	115.47	4	.008	264.82	4	.008	264.82	4	.098	341.03	4	.098	341.03	4	1.366	233.37
	5	.227	125.05	5	.111	327.91	5	.111	327.91	5	.169	341.03	5	.169	341.03	5	1.366	233.37
	6	.093	338.05	6	.040	350.57	6	.040	350.57	6	.043	342.80	6	.043	342.80	6	1.366	233.37
	7	.044	338.05	7	.010	194.52	7	.010	194.52	7	.069	342.80	7	.069	342.80	7	1.366	233.37
	8	.106	47.92	8	.012	48.31	8	.012	48.31	8	.062	342.80	8	.062	342.80	8	1.366	233.37
	9			9			9			9			9			9		
	10			10			10			10			10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062			W4 .125			W5 .250			W7 .750			W8 .875			W9 .936		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	10.775	167.26	1	10.121	171.36	1	5.205	175.62	1	3.081	189.39	1	2.925	191.00	1	2.798	193.00
	2	.543	225.06	2	.402	227.80	2	.288	250.78	2	.343	250.78	2	.375	252.80	2	.401	253.00
	3	.085	165.05	3	.158	213.12	3	.219	209.46	3	.159	222.81	3	.275	224.89	3	.290	225.00
	4	.033	121.79	4	.148	217.19	4	.071	209.46	4	.051	275.62	4	.107	279.11	4	.119	280.00
	5	.077	121.79	5	.176	328.34	5	.144	325.58	5	.065	340.75	5	.061	341.03	5	.062	342.80
	6	.069	121.79	6	.073	328.34	6	.022	254.07	6	.038	340.75	6	.031	341.03	6	.034	342.80
	7			7	.053	282.29	7	.023	193.11	7	.008	340.75	7	.016	341.03	7	.000	342.80
	8			8			8			8			8			8		
	9			9			9			9			9			9		
	10			10			10			10			10			10		

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 35 ALPHA-MCL = 2.0 POP RUN.PT 8.07  
 RUN 8 ALPHA-BAR = 2.0 Q-COMP = .32576  
 POINT 4 SIGMA = -135. V-REF = 200.16  
 COMPUTED FREQUENCY = 15.53, N = .1219

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE:005  
 SUCTION

N	CPREAL	CPIMAG
1	9.555	26.179
2	-2.46	-1.391
3	-1.732	-6.334
4	-8.318	-0.13
5	-0.19	-0.008
6	.602	-4.533
7	.274	-3.17
8	-1.119	-3.64
9	.063	.449
10	-.041	-.018

XE:012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-21.469	-11.706	1	9.923	-16.286	1	18.717	10.591
2	.417	-3.244	2	-1.251	.891	2	2.601	-2.147
3	.319	.653	3	.003	-1.25	3	-7.722	1.006
4	.828	.134	4	-.015	.207	4	-.085	.355
5	-.702	.776	5	-.061	-.094	5	.133	-.046
6	-.152	-.125	6	.018	.042	6	-.073	.046
7	-.325	-.428	7	.043	.108	7	-.018	.098
8	.254	-.470	8	.042	-.188	8	-.013	-.097
9	.004	.111	9	-.026	.039	9	-.033	-.097
10	.312	-.033	10	.036	.021	10	-.053	-.039

XE:030  
 SUCTION

N	CPREAL	CPIMAG
1	2.219	8.090
2	-.147	-.268
3	-.133	-.042
4	.176	.071
5	-.015	-.002
6	.003	.003
7	-.001	.003
8	.013	-.004
9	-.013	-.004
10	-.014	-.026

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35 ALPHA-MCL = 2.0 PDP RUN:1 8.07
FILE RUN 8 ALPHA-BAR = 3.0 Q-COMP = 32576
POINT 4 SIGMA = 135.0 V-REF = 200.16
COMPUTED FREQUENCY = 15.53, K = .1219
FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

**X-062  
SUCTION**

X=062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	-6.006	-4.215	1	1.767	7.301	1	4.642	-6.267	1	-7.009	1.670	1	7.154	5.867	1	-3.987	3.350
	2	-0.04	-1.163	2	-0.10	-1.104	2	-0.09	.020	2	.019	.100	2	.064	.091	2	.021	-0.021
	3	.051	-1.103	3	-1.29	-.046	3	-0.77	.027	3	.007	.026	3	.072	.091	3	.024	-0.024
	4	-.043	.013	4	-0.10	.069	4	-0.78	.053	4	-.013	.039	4	.013	.020	4	.024	.014
	5	-.017	-.069	5	-0.20	.028	5	.056	-.005	5	-.011	.051	5	.013	.030	5	.023	.014
	6	.025	.060	6	-0.19	.043	6	.011	-.005	6	.016	-.041	6	.014	.026	6	.023	.023
	7	.022	.020	7	-0.00	.000	7	.032	-.037	7	.017	.041	7	.018	.026	7	.023	.023
	8	.038	.010	8	.009	-.008	8	-.035	-.000	8	.005	-.009	8	.012	.043	8	.035	.003
	9	.034	.026	9	-.007	-.008	9	-.021	-.000	9	.036	-.009	9	-.012	.063	9	.035	.003
	10			10			10			10			10			10		
X=012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	13.270	6.599	1	-5.885	12.392	1	-5.885	12.392	1	15.873	-4.988	1	-17.093	-7.715	1	15.162	-2.330
	2	-0.074	-.817	2	-1.181	-.077	2	.012	-.077	2	-1.266	-1.705	2	3.299	1.580	2	15.550	3.657
	3	-	.062	3	.049	.021	3	.049	.021	3	-.119	.115	3	-.102	.060	3	1.550	-.027
	4	-.026	.167	4	-.047	.020	4	-.047	.020	4	-.093	-.023	4	-.102	.060	4	1.550	-.027
	5	.093	-.073	5	-.033	.020	5	-.033	.020	5	-.025	-.022	5	-.182	.060	5	1.550	-.027
	6	-.008	-.081	6	-.029	-.028	6	-.029	-.028	6	-.004	-.012	6	-.219	.060	6	1.550	-.027
	7	-.033	-.075	7	.006	-.019	7	.006	-.019	7	-.032	-.006	7	.041	.060	7	1.550	-.027
	8	-.032	-.075	8	.002	-.007	8	.002	-.007	8	-.014	-.019	8	.041	.060	8	1.550	-.027
	9	-.032	-.075	9	.002	-.007	9	.002	-.007	9	-.014	-.019	9	.041	.060	9	1.550	-.027
	10	-.032	-.075	10	.002	-.007	10	.002	-.007	10	-.014	-.019	10	.041	.060	10	1.550	-.027

\*\*\* WALL PRESSURE, PER RADIAN \*\*\*

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WALL NO. GAP FRACTION	N3 CPREAL CPIMAG	N4 CPREAL CPIMAG	N5 CPREAL CPIMAG	N7 CPREAL CPIMAG	N8 CPREAL CPIMAG	N9 CPREAL CPIMAG
1	9.8520	-1.3089	2.072	3.000	2.1360	2.003
2	-1.2440	-1.1011	-0.343	3.000	-0.070	-0.004
3	-1.3172	-0.1011	-0.069	3.000	0.059	0.004
4	0.0000	-0.0605	0.051	3.000	0.000	0.000
5	0.0000	0.0045	0.033	3.000	0.017	0.002
6	0.0000	0.0100	0.050	3.000	0.020	0.002
7	0.0000	0.0000	0.033	3.000	0.019	0.002
8	0.0000	0.0037	0.039	3.000	0.019	0.002
9	0.0000	0.0077	0.036	3.000	0.019	0.002
10	0.0000	0.0000	0.000	3.000	0.000	0.000



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 35 ALPHA-MCL = 2.0 POP RUN-PT 8.07  
 PUN 8 ALPHA-BAR = 2.0 O-COMP = .32576  
 POINT 4 SIGMA = -135. V-REF = 200.16  
 C COMPUTED FREQUENCY = 15.53, K = .1219  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

N	CP-MAG	PHI
1	27.541	161.90
2	.462	157.82
3	1.844	110.10
4	.839	180.85
5	.020	294.40
6	.754	143.37
7	.419	220.80
8	.383	108.15
9	.454	171.96
10	.045	23.62

X=.012 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	24.448	163.61	1	19.071	166.35	1	24.615	162.72	1	21.530	168.62	1	19.661	161.50				
2	5.603	234.91	2	1.536	236.53	2	.562	230.55	2	1.176	230.97	2	3.637	231.57				
3	1.839	296.48	3	.125	274.32	3	.723	192.64	3	1.186	230.97	3	.667	231.57				
4	1.006	189.17	4	.208	274.32	4	.723	192.64	4	.365	358.53	4	.561	231.57				
5	.397	309.35	5	.046	281.35	5	.659	261.05	5	.365	358.53	5	.219	231.57				
6	.332	298.40	6	.187	303.22	6	.408	226.94	6	.365	358.53	6	.219	231.57				
7	.535	298.40	7	.131	282.55	7	.244	304.56	7	.141	108.73	7	.219	231.57				
8	.111	47.27	8	.132	27.79	8	.191	171.32	8	.104	99.71	8	.154	129.66				
9	.312	269.43	9	.042	120.95	9	.245	266.86	9	.127	120.92	9	.104	129.66				
10			10			10			10			10						

X=.030  
 SUCTION

N	CP-MAG	PHI
1	8.379	164.64
2	.305	161.28
3	.139	137.69
4	.190	21.97
5	.128	86.26
6	.015	352.28
7	.034	352.64
8	.004	250.49
9	.046	16.95
10	.032	63.31



OCWT PERIODICITY TEST  
 MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 38 ALPHA-MCL = 2.8 POP RUN PT 6.10  
 RUN 8 ALPHA-BAR = 2.8 C-CURP = .3215  
 POINT 7 SIGMA = -135. V-REF = 198.71  
 COMPUTED FREQUENCY = 19.18, K = .1516

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

N CPREAL CPIMAG  
 1 8.892 26.057  
 2 -.493 -.403  
 3 -1.685 -.365  
 4 -.953 -.029  
 5 .008 -.132  
 6 .509 -.334  
 7 .264 -.237  
 8 -.084 .435  
 9 .147 .009  
 10 .046

X=.012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	22.495	-11.822	1	9.555	-17.280	1	24.187	7.760	1	2.359	10.537
2	4.515	-3.341	2	1.409	1.206	2	-2.094	-3.510	2	2.621	-12.356
3	1.218	1.001	3	-.125	-.129	3	.379	-.084	3	-.869	1.833
4	1.048	.137	4	-.172	.096	4	.329	-.084	4	-1.037	-.290
5	-.737	.998	5	.149	.053	5	-.157	-.084	5	-.000	.213
6	-.295	-.290	6	-.105	-.150	6	.010	.011	6	.017	.086
7	-.437	-.145	7	-.000	.251	7	-.384	-.177	7	-.017	.202
8	.343	.110	8	.074	-.209	8	.166	-.152	8	-.006	.001
9	.241	-.024	9	-.071	.068	9	-.042	-.140	9	.139	-.202
10	.245	-.024	10	.084	.081	10	-.140	-.140	10	.085	-.085

X=.030  
 SUCTION

N CPREAL CPIMAG  
 1 2.060 8.029  
 2 -.250 -.208  
 3 -.074 -.058  
 4 .122 -.022  
 5 .017 .002  
 6 .040 .018  
 7 -.018 .036  
 8 .000 .029  
 9 .009 .011  
 10

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 38 ALPHA-MCL = 2.0 PDP RUN PT 8.10  
 RUN 8 ALPHA-BAR = 2.0 Q-COMP = .3215  
 POINT 7 SIGMA = -135. V-REF = 198.71  
 COMPUTED FREQUENCY = 19.18, K = .1516

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062																		
SUCTION																		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	-6.544	-4.299	1	1.509	7.277	1	4.290	-6.492	1	-7.485	1.694	1	6.961	4.764	1	-3.743	6.442
	2	-0.322	.173	2	-1.129	-.073	2	-1.106	.049	2	-.060	.158	2	-.046	.006	2	-.144	-.026
	3	.014	-.004	3	-.112	-.082	3	-.080	.130	3	-.018	.118	3	-.089	.227	3	-.131	-.005
	4	-.017	-.038	4	-.006	-.048	4	-.036	-.030	4	-.094	.038	4	.023	.018	4	.051	-.035
	5	-.009	-.031	5	-.002	-.003	5	-.050	.059	5	-.019	.040	5	.024	-.016	5	-.020	-.037
	6	-.060	-.015	6	-.035	-.019	6	-.080	.009	6	-.059	.032	6	.018	.106	6	-.030	-.088
	7	-.010	-.077	7	-.034	-.014	7	-.041	-.013	7	.018	-.032	7	-.017	.014	7	-.002	-.002
	8	-.022	-.064	8	-.020	-.038	8	-.004	-.054	8	.012	-.034	8	.035	-.025	8	-.003	-.002
	9	.122	-.083	9	-.010	-.021	9	-.004	-.054	9	.042	.006	9	.022	-.067	9	.003	-.004
	10	-.030	-.092	10	.013	-.039	10	-.009	.052	10	-.008	.006	10	.038	-.067	10	.068	-.004
X=.012																		
PRESSURE																		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	13.083	6.648	1	-6.197	12.512	1	15.463	-5.242	1	17.744	-7.298	1	10.094	-21.724	1	10.094	-21.724
	2	.932	-.772	2	-1.262	1.127	2	-1.381	1.127	2	3.411	1.635	2	-7.743	4.103	2	-7.743	4.103
	3	.022	.170	3	-.019	.055	3	-.043	1.055	3	-.091	-.715	3	-1.896	-.103	3	-1.896	-.103
	4	-.024	-.085	4	.010	-.064	4	.053	-.008	4	.043	-.008	4	-.512	-.326	4	-.512	-.326
	5	.026	-.026	5	-.005	-.018	5	-.039	.001	5	-.047	.001	5	-.337	.115	5	-.337	.115
	6	.030	.030	6	-.002	-.024	6	-.047	-.001	6	-.059	-.045	6	.077	-.481	6	.077	-.481
	7	.084	.030	7	.028	-.031	7	.034	-.008	7	-.070	-.034	7	-.005	-.218	7	-.005	-.218
	8	.029	-.086	8	.045	-.023	8	-.034	-.004	8	-.070	-.034	8	-.005	-.084	8	-.005	-.084
	9	.014	-.014	9	.001	-.005	9	.001	-.005	9	.001	-.005	9	.001	-.005	9	.001	-.005
	10	.041	.096	10	.001	-.005	10	.001	-.005	10	.001	-.005	10	.001	-.005	10	.001	-.005

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	W2	W3	W4	W5	W7	W8	W9	
GAP FRACTION								
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-10.520	3.197	1	-9.972	2.142	1	-2.771	-.413
2	-1.680	-1.604	2	-1.241	-1.827	2	-.254	-.131
3	-.663	-.195	3	-.031	-.200	3	-.002	.064
4	-.117	-.008	4	.022	-.110	4	.046	.009
5	-.117	-.021	5	.000	-.066	5	-.065	.034
6	-.025	-.044	6	-.008	-.047	6	-.006	-.022
7	-.092	-.104	7	-.022	-.065	7	-.021	-.032
8	.025	-.036	8	.029	-.005	8	.009	-.016
9			9			9		.005
10			10			10		.016

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 38 ALPHA-MCL = 2.0 POP RUN-PT 8.10  
 RUN 8 ALPHA-BAR = 2.0 O-COMP = 32115  
 POINT 7 SIGMA = 135 V-REF = 188.71  
 COMPUTED FREQUENCY = 19.18, K = .1516

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

X=.005  
 SUCTION

N	CP-MAG	PHI
1	27.532	161.16
2	.636	39.225
3	1.724	102.22
4	.853	101.93
5	.103	141.56
6	.645	142.09
7	.426	218.38
8	.299	106.22
9	.431	160.10
10	.047	191.34

X=.012  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	25.412	162.72	1	19.745	163.94	1	25.401	163.401	1	22.041	163.56
2	5.633	353.62	2	1.855	229.19	2	.614	225.614	2	3.225	228.04
3	1.025	302.71	3	.202	330.72	3	.562	318.562	3	1.370	329.12
4	1.024	187.48	4	.197	330.68	4	.734	318.734	4	.301	357.05
5	1.024	261.43	5	.159	64.68	5	.606	253.606	5	.240	152.75
6	1.464	314.32	6	.251	145.05	6	.429	203.429	6	.240	334.71
7	.544	240.09	7	.222	289.44	7	.243	193.243	7	.202	91.57
8	.265	339.56	8	.217	133.76	8	.158	105.158	8	.179	135.57
9	.265	264.50	9	.217	133.76	9	.200	225.200	9	.219	202.96
10	.265	264.50	10	.217	133.76	10	.200	225.200	10	.219	202.96

X=.030  
 SUCTION

N	CP-MAG	PHI
1	9.289	165.61
2	.325	39.77
3	.113	40.89
4	.202	343.26
5	.132	343.03
6	.095	280.07
7	.040	272.18
8	.040	243.35
9	.029	230.72
10	.014	230.72

OCWT PERIODICITY TEST  
 MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS  
 FILE 38 ALPHA-MCL = 2.0 POP RUN.PT 8.10  
 RUN 8 ALPHA-BAR = 2.0 Q-COMP = 13115  
 POINT 7 SIGMA = -135 V-REF = 198.1  
 COMPUTED FREQUENCY = 19.18, K = .1516  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	7.830 168.30	7.432 168.29	7.781 168.46	7.674 167.25	3.435 169.39	7.364 165.55
2	.176 110.64	.134 133.13	.117 244.94	.169 110.84	.046 182.07	.147 258.84
3	.015 208.16	.152 57.65	.150 76.59	.117 198.71	.243 113.55	.154 186.90
4	.041 65.11	.048 262.47	.086 43.56	.102 337.91	.029 281.52	.040 106.63
5	.032 61.65	.044 216.24	.080 83.17	.062 109.57	.108 281.39	.040 106.63
6	.061 256.14	.058 341.29	.050 99.81	.042 161.76	.035 216.04	.040 106.63
7	.078 307.59	.035 253.38	.020 87.70	.022 332.63	.033 216.04	.040 106.63
8	.068 370.69	.023 242.20	.045 130.96	.022 332.63	.033 216.04	.040 106.63
9	.147 349.29	.023 155.48	.054 189.75	.054 38.63	.033 216.04	.040 106.63
10	.097 161.72	.041 252.03	.053 189.75	.010 142.65	.077 209.35	.012 107.21
X=.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	14.675 341.94	13.963 341.35	16.327 341.27	19.187 337.36	23.954 339.99	23.954 339.99
2	1.211 230.36	1.656 229.88	2.293 229.88	3.493 229.88	6.675 229.88	6.675 229.88
3	.097 60.77	.065 98.76	.044 118.08	.115 69.26	.115 69.26	.115 69.26
4	.035 182.77	.019 299.55	.046 323.16	.072 68.71	.072 68.71	.072 68.71
5	.085 98.76	.101 91.17	.072 122.71	.072 122.71	.072 122.71	.072 122.71
6	.060 74.76	.042 49.28	.035 49.28	.035 49.28	.035 49.28	.035 49.28
7	.091 251.28	.051 311.72	.088 194.01	.088 194.01	.088 194.01	.088 194.01
8	.140 129.09	.051 255.43	.035 217.48	.035 217.48	.035 217.48	.035 217.48
9	.105 336.70	.005 6.51	.026 329.72	.026 329.72	.026 329.72	.026 329.72

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	10.997 163.18	10.199 167.82	5.127 172.36	2.953 197.33	2.801 189.34	2.719 188.75
2	.323 223.68	.379 328.08	.114 81.08	.217 139.87	.264 139.87	.339 139.87
3	.306 350.27	.177 291.82	.123 271.82	.055 271.82	.064 271.82	.049 271.82
4	.104 184.05	.122 291.82	.068 291.82	.035 291.82	.047 291.82	.050 291.82
5	.117 190.99	.050 248.94	.033 248.94	.083 248.94	.074 248.94	.089 248.94
6	.112 216.63	.050 274.93	.045 274.93	.042 274.93	.030 274.93	.049 274.93
7	.107 256.33	.065 310.59	.035 310.59	.017 310.59	.033 310.59	.012 310.59
8	.093 350.33	.029 310.59	.025 310.59	.017 310.59	.033 310.59	.012 310.59
9	.044 355.49	.029 310.59	.025 310.59	.017 310.59	.033 310.59	.012 310.59
10	.044 355.49	.029 310.59	.025 310.59	.017 310.59	.033 310.59	.012 310.59

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 14 ALPHA-MCL = 2.0 POP RUN.PT 5.05  
 RUN 5 ALPHA-BAR = 2.0 Q-COMP = .31839  
 POINT 2 SIGMA = -90. V-REF = 197.84  
 COMPUTED FREQUENCY = 9.09, K = .0722

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

N CPREAL CPIMAG  
 1 22.066 -11.296  
 2 -.242 -1.073  
 3 -.139 -1.337  
 4 -.1877 -.124  
 5 .204 .599  
 6 .091 .339  
 7 .504 .335  
 8 .174 .376  
 9 -.006 -.024  
 10 -.003 -.024

XE:012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	9.291	20.371	1	19.470	-8.653	1	-6.579	-15.588	1	7.264	15.993
2	3.987	3.255	2	-4.884	-2.426	2	.708	1.258	2	1.512	1.755
3	1.365	-.092	3	-.141	.668	3	-.115	-.312	3	.982	-.164
4	-.616	-.046	4	-.274	.054	4	-.048	-.231	4	.582	-.380
5	-.707	.560	5	.023	.223	5	-.048	-.231	5	.312	-.230
6	-.017	.251	6	.024	-.457	6	-.059	-.108	6	.124	-.261
7	-.122	-.391	7	.017	-.059	7	-.163	-.065	7	.038	-.017
8	-.240	-.391	8	-.153	-.075	8	.134	.041	8	-.110	-.027
9	-.290	-.215	9	-.062	.024	9	.072	.097	9	-.094	-.025
10	-.265	.012	10	-.082	.010	10	-.055	.097	10	.020	.039

XE:030  
 SUCTION

N CPREAL CPIMAG  
 1 6.595 -2.750  
 2 .184 .342  
 3 .015 .326  
 4 .045 .205  
 5 -.114 .109  
 6 .057 .011  
 7 -.004 .025  
 8 .066 .016  
 9 -.006 .014  
 10 -.049 -.017





MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 14 ALPHA-MCL = 2.0 PDP RUN.PT 5.05  
 RUN 5 ALPHA-BAR = 2.0 Q-COMP = .31839  
 POINT 2 SIGMA = -90. V-REF = 197.84  
 FOURIER COEFFICIENTS, AMPLITUDE 9.09, K = .0722  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

9

7

6

5

N	CP-MAG	PHI
1	24.790	152.89
2	.252	196.78
3	1.344	84.07
4	1.956	156.53
5	.239	211.42
6	.606	81.36
7	.608	146.08
8	.183	177.44
9	.376	89.76
10	.025	262.37

X=.012  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	22.390	155.48	1	16.919	157.12	1	22.264	154.18	1	16.975	153.41
2	1.347	266.15	2	1.444	240.64	2	1.028	211.22	2	1.779	217.10
3	.899	184.31	3	.332	237.81	3	.712	208.36	3	.640	238.22
4	.899	231.97	4	.198	168.21	4	.087	148.70	4	.195	211.90
5	.252	273.66	5	.275	233.68	5	.331	202.36	5	.108	197.92
6	.509	193.66	6	.123	331.37	6	.167	215.11	6	.108	197.92
7	.459	236.41	7	.148	334.17	7	.156	249.86	7	.108	197.92
8	.361	306.64	8	.083	299.45	8	.267	134.38	8	.108	197.92
9	.265	182.59	9	.111	299.45	9	.267	134.38	9	.108	197.92
10			10			10			10		

X=.030  
 SUCTION

N	CP-MAG	PHI
1	145	157.36
2	.388	61.70
3	.328	92.56
4	.215	287.74
5	.158	45.54
6	.058	10.75
7	.025	79.92
8	.068	14.07
9	.015	168.52
10	.052	340.48



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 16 ALPHA-MCL = 2.0 POP RUN:PT 5.08  
RUN 5 ALPHA-BAR = 2.0 O-COMP = .32384  
POINT 4 SIGMA = -90. V-REF = 199.56  
COMPUTED FREQUENCY = 15.43, K = .1214

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.		3		4		5		6		7		9	
		N		N		N		N		N		N	
		CPREAL		CPIMAG		CPREAL		CPIMAG		CPREAL		CPIMAG	
X=.012 SUCTION	1	21.823	-12.064	1	19.273	-9.707	-7.604	-15.394	1-19.985	10.803	8.048	15.822	1-8.245
	2	-2.205	-3.113	2	-5.073	-2.213	.827	.562	2-4.131	-2.182	1.555	.972	1.676
	3	-4.258	-1.119	3	-1.084	.961	-1.108	.046	3-.091	-1.037	1.700	.190	-1.857
	4	.658	.598	4	.112	.226	.005	.118	4-.470	.125	.339	.153	.422
	5	.201	.270	5	.527	.147	.075	.014	5-.800	-.125	.021	.280	.020
	6	.190	.503	6	.126	.471	.130	.126	6-.060	-.125	-.115	.220	.018
	7	.414	.377	7	.070	.015	.019	.089	7-.199	-.125	-.156	.083	-.016
	8	.010	-.096	8	.032	.047	.042	.054	8-.340	-.125	-.023	.000	-.062
	9	-.134	-.081	9	.035	.089	.038	.115	9-.057	-.125	.021	.047	-.014
	10	-.123	.051	10	-.035	.003	.028	.115	10-.145	-.125	-.021	.010	-.014

X=.030 SUCTION		N		CPREAL		CPIMAG	
	1	6.360	-2.799	1	19.273	-9.707	-7.604
	2	-1.226	.011	2	-5.073	-2.213	.827
	3	-.063	-.136	3	-1.084	.961	-1.108
	4	.080	.119	4	.112	.226	.005
	5	.120	.025	5	.527	.147	.075
	6	.012	-.025	6	.126	.471	.130
	7	-.044	.044	7	.070	.015	.019
	8	-.000	-.035	8	.032	.047	.042
	9	-.007	.007	9	.035	.089	.038
	10	-.009	.009	10	-.035	.003	.028

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 16 ALPHA-MCL = 2.0 POP RUN-PI 5.08  
 RUN 5 ALPHA-BAR = 3.0 Q-COMP = 12384  
 POINT 4 SIGMA = -90. V-REF = 199.56  
 COMPUTED FREQUENCY = 15.43, K = .1214

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	2.151	6.477	1	2.254	-2.400	1	-2.353	-6.758	1	-6.491	2.174	1	2.447	6.709	1	-2.535	-6.724
	2	-2.281	-0.104	2	-1.164	-1.001	2	-1.302	-0.057	2	-1.162	-0.169	2	-2.237	-0.056	2	-2.535	-6.724
	3	-0.031	-0.019	3	-0.051	-0.090	3	-0.096	-0.065	3	-0.020	-0.019	3	-0.110	-0.011	3	-0.019	-0.023
	4	-0.037	-0.021	4	-0.056	-0.055	4	-0.033	-0.043	4	-0.041	-0.059	4	-0.059	-0.028	4	-0.010	-0.023
	5	-0.007	-0.015	5	-0.027	-0.017	5	-0.020	-0.046	5	-0.002	-0.012	5	-0.027	-0.019	5	-0.006	-0.013
	6	-0.048	-0.012	6	-0.017	-0.058	6	-0.020	-0.057	6	-0.019	-0.064	6	-0.021	-0.013	6	-0.006	-0.013
	7	-0.060	-0.010	7	-0.008	-0.039	7	-0.022	-0.057	7	-0.019	-0.028	7	-0.021	-0.013	7	-0.006	-0.013
	8	-0.089	-0.008	8	-0.004	-0.007	8	-0.004	-0.045	8	-0.035	-0.002	8	-0.032	-0.028	8	-0.010	-0.038
	9	-0.021	-0.004	9	-0.002	-0.001	9	-0.004	-0.012	9	-0.004	-0.002	9	-0.032	-0.028	9	-0.010	-0.038
	10	-0.009	-0.002	10	-0.002	-0.001	10	-0.004	-0.012	10	-0.035	-0.002	10	-0.032	-0.028	10	-0.010	-0.038
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	.000	.000	1	.000	.000	1	.000	.000	1	12.286	-8.446	1	11.009	16.430	1	11.009	16.430
	2	.000	.000	2	.000	.000	2	.000	.000	2	-1.789	-7.777	2	1.609	1.978	2	2.220	1.397
	3	.000	.000	3	.000	.000	3	.000	.000	3	-1.005	-1.755	3	2.220	1.397	3	2.220	1.397
	4	.000	.000	4	.000	.000	4	.000	.000	4	-0.054	-0.111	4	2.220	1.397	4	2.220	1.397
	5	.000	.000	5	.000	.000	5	.000	.000	5	-0.054	-0.111	5	2.220	1.397	5	2.220	1.397
	6	.000	.000	6	.000	.000	6	.000	.000	6	-0.054	-0.111	6	2.220	1.397	6	2.220	1.397
	7	.000	.000	7	.000	.000	7	.000	.000	7	-0.054	-0.111	7	2.220	1.397	7	2.220	1.397
	8	.000	.000	8	.000	.000	8	.000	.000	8	-0.054	-0.111	8	2.220	1.397	8	2.220	1.397
	9	.000	.000	9	.000	.000	9	.000	.000	9	-0.054	-0.111	9	2.220	1.397	9	2.220	1.397
	10	.000	.000	10	.000	.000	10	.000	.000	10	-0.054	-0.111	10	2.220	1.397	10	2.220	1.397

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938		
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-8.617	3.961	1	-8.635	-1.901	1	-8.635	-1.901
2	-2.366	-0.877	2	-1.901	-0.389	2	-2.366	-0.877
3	-1.120	-0.458	3	-0.660	-0.229	3	-1.120	-0.458
4	-1.131	-0.056	4	-0.333	-0.135	4	-0.660	-0.229
5	-1.119	-0.051	5	-0.070	-0.093	5	-0.333	-0.135
6	-1.001	-0.005	6	-0.109	-0.040	6	-0.070	-0.093
7	-0.093	-0.010	7	-0.036	-0.024	7	-0.109	-0.040
8	-0.069	-0.001	8	-0.029	-0.019	8	-0.036	-0.024
9	-0.069	-0.006	9	-0.019	-0.018	9	-0.029	-0.019
10	-0.069	-0.006	10	-0.013	-0.014	10	-0.019	-0.018

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 16 ALPHA-MCL = 2.0 POP RUN.PT 5.08  
RUN 5 ALPHA-BAR = 2.0 O-COMP = .32384  
POINT 4 SIGMA = -90. V-REF = 199.56  
COMPUED FREQUENCY = 15.43, K = .1214

FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
SUCTION

N	CP-MAG	PHI
1	24.935	151.07
2	1.374	236.80
3	1.197	69.20
4	.882	138.23
5	.336	233.37
6	.538	69.36
7	.560	137.70
8	.097	263.93
9	.312	64.50
10	.113	157.34

X=.012  
SUCTION

N	CP-MAG	PHI
1	22.680	152.82
2	4.935	205.82
3	1.377	257.82
4	.679	166.51
5	.337	212.85
6	.330	282.51
7	.431	144.26
8	.083	214.26
9	.258	152.91
10		

X=.030  
SUCTION

N	CP-MAG	PHI
1	6.948	156.24
2	.126	5.15
3	.150	65.00
4	.143	304.73
5	.125	295.57
6	.027	287.46
7	.046	269.42
8	.035	252.27
9	.024	255.66
10		

9

7

6

5

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	17.751	153.01	1	22.717	151.61	1	16.897	150.70
2	1.720	232.01	2	1.031	264.96	2	1.851	205.17
3	.490	257.79	3	.611	140.24	3	.899	260.32
4	.383	352.36	4	.818	188.75	4	.286	315.89
5	.177	51.90	5	.155	125.97	5	.116	100.14
6	.056	117.90	6	.373	204.91	6	.032	328.20
7	.024	25.93	7	.061	119.71	7	.106	278.69
8			8	.301	283.89	8	.031	297.32
9			9			9		
10			10			10		

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 16 ALPHA-MCL = 2.0 POP RUN.PT 5.08  
 RUN 5 ALPHA-BAR = 2.0 Q-COMP = 32384  
 POINT 4 SIGMA = -90. V-REF = 196.56  
 COMPUTED FREQUENCY = 15.43, K = .1214  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	1	4	5	6	7	9
X=.062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	6.825 161.63	6.698 159.00	7.156 160.80	6.846 161.25	7.193 161.93	6.804 158.21
2	.300 120.25	.103 110.64	.107 110.64	.234 122.29	.270 122.29	.234 122.29
3	.037 120.95	.059 109.94	.132 109.94	.028 122.29	.064 122.29	.009 122.29
4	.017 120.60	.074 109.33	.118 109.33	.064 122.29	.103 122.29	.020 122.29
5	.041 120.25	.074 109.33	.118 109.33	.071 122.29	.103 122.29	.020 122.29
6	.050 120.00	.074 109.33	.118 109.33	.071 122.29	.103 122.29	.020 122.29
7	.061 119.75	.074 109.33	.118 109.33	.071 122.29	.103 122.29	.020 122.29
8	.080 119.50	.074 109.33	.118 109.33	.071 122.29	.103 122.29	.020 122.29
9	.106 119.25	.074 109.33	.118 109.33	.071 122.29	.103 122.29	.020 122.29
10	.106 119.00	.074 109.33	.118 109.33	.071 122.29	.103 122.29	.020 122.29
X=.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00
2	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00
3	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00
4	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00
5	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00
6	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00
7	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00
8	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00
9	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00
10	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 CP-MAG PHI	W4 CP-MAG PHI	W5 CP-MAG PHI	W6 CP-MAG PHI	W7 CP-MAG PHI	W8 CP-MAG PHI	W9 CP-MAG PHI
1	9.483 150.31	8.984 163.97	.515 174.85	2.700 209.07	2.607 209.07	2.510 209.07	2.510 209.07
2	.474 120.35	.522 121.35	.044 121.35	.098 121.35	.098 121.35	.098 121.35	.098 121.35
3	.131 119.66	.138 119.66	.134 119.66	.092 119.66	.092 119.66	.092 119.66	.092 119.66
4	.129 119.00	.138 119.00	.134 119.00	.092 119.00	.092 119.00	.092 119.00	.092 119.00
5	.091 118.33	.086 118.33	.077 118.33	.092 118.33	.092 118.33	.092 118.33	.092 118.33
6	.098 117.66	.071 117.66	.049 117.66	.092 117.66	.092 117.66	.092 117.66	.092 117.66
7	.069 117.00	.071 117.00	.049 117.00	.092 117.00	.092 117.00	.092 117.00	.092 117.00
8	.069 116.33	.071 116.33	.049 116.33	.092 116.33	.092 116.33	.092 116.33	.092 116.33
9	.069 115.66	.071 115.66	.049 115.66	.092 115.66	.092 115.66	.092 115.66	.092 115.66
10	.069 115.00	.071 115.00	.049 115.00	.092 115.00	.092 115.00	.092 115.00	.092 115.00

MODE 2 -- LEADING EDGE PLANE DATA, WALL STAYIONS

FILE 18 ALPHA-MCL = 2.0 PDP RUNPT 5.10  
 RUN 5 ALPHA-BAR = 2.0 O-COMP = 32398  
 POINT 6 SIGMA = -90. V-REF = 199.60  
 COMPUTED FREQUENCY = 18.97, K = .1493

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=0.05  
 SUCTION

N	CPREAL	CPIMAG
1	21.419	-12.453
2	-2.217	-.481
3	-.544	-.630
4	-.589	.735
5	.444	.181
6	.294	.270
7	.408	-.448
8	-.101	-.018
9	-.131	-.126
10	-.236	-.219

X=0.12  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	10.857	19.203	1	19.593	-9.809	1	19.352	11.346
2	4.692	1.970	2	-4.930	1.845	2	-3.877	-1.679
3	1.592	-1.264	3	-.086	-1.275	3	-.233	-1.940
4	-.125	1.206	4	.491	1.026	4	-.217	-.460
5	-.125	1.206	5	-.253	-.480	5	-.711	-.202
6	-.016	-.533	6	-.003	1.183	6	-.026	-.201
7	-.471	1.022	7	-.144	-.047	7	-.259	-.383
8	-.066	-.138	8	-.105	-.073	8	-.334	-.052
9			9	-.232	-.119	9	-.067	-.170
10			10			10	-.115	

X=0.30  
 SUCTION

N	CPREAL	CPIMAG
1	6.465	-2.855
2	-.102	-.034
3	-.134	-.093
4	-.070	-.077
5	-.003	-.022
6	-.003	-.046
7	.015	-.035
8	.011	-.023
9	.015	-.039
10	-.042	.012

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18 ALPHA-MCL = 2.0 POP RUN-PT 5.10
5 ALPHA-BAR = 3.0 Q-COMP = 32398
6 SIGNA = -90. W-REF = 199.80
COMPUTED FREQUENCY = 18.97, K = .1493

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
COMPUTED FREQUENCY = 18.97

BLADE NO.	X=052 SUCTION	3			4			5			6			7			9		
		N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	2.467	6.520	-2.332	1	2.290	-6.536	1	2.238	2.442	1	2.750	6.778	1	2.450	-6.106	1	2.450	-6.106	
2	2.028	-.092	-1.123	2	-.084	-.059	2	-.096	1.120	2	-.012	-.008	2	-.091	-.009	2	-.091	-.009	
3	-.002	-.015	-.014	3	-.051	-.027	3	-.089	-.018	3	-.192	-.063	3	-.043	-.019	3	-.043	-.019	
4	-.049	-.015	-.025	4	-.021	-.036	4	-.036	-.028	4	-.025	-.040	4	-.022	-.015	4	-.022	-.015	
5	-.033	-.029	-.009	5	-.047	-.106	5	-.012	-.001	5	-.044	-.016	5	-.038	-.019	5	-.038	-.019	
6	-.084	-.032	-.028	6	-.018	-.012	6	-.016	-.016	6	-.052	-.006	6	-.038	-.009	6	-.038	-.009	
7	-.001	-.097	-.021	7	-.004	-.046	7	-.039	-.015	7	-.033	-.016	7	-.006	-.001	7	-.006	-.001	
8	-.117	-.113	-.071	8	-.001	-.034	8	-.039	-.035	8	-.033	-.016	8	-.006	-.001	8	-.006	-.001	
9	-.117	-.087	-.016	9	-.001	-.050	9	-.039	-.035	9	-.033	-.016	9	-.006	-.001	9	-.006	-.001	
10	-.117	-.087	-.016	10	-.001	-.050	10	-.039	-.035	10	-.033	-.016	10	-.006	-.001	10	-.006	-.001	

  

BLADE NO.	X=012 PRESSURE	3			4			5			6			7			9		
		N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-.000	-.000	-.000	1	-.000	-.000	1	12.377	-8.557	1	10.280	-12.401	1	12.587	17.097	1	12.587	17.097	
2	-.000	-.000	-.000	2	-.000	-.000	2	-1.580	-.745	2	-1.889	-1.343	2	1.480	-.500	2	1.480	-.500	
3	-.000	-.000	-.000	3	-.000	-.000	3	-.062	-.265	3	-1.869	1.135	3	1.822	1.500	3	1.822	1.500	
4	-.000	-.000	-.000	4	-.000	-.000	4	-.027	-.027	4	-.302	-.023	4	-.000	-.000	4	-.000	-.000	
5	-.000	-.000	-.000	5	-.000	-.000	5	-.010	-.010	5	-.335	-.229	5	-.026	-.026	5	-.026	-.026	
6	-.000	-.000	-.000	6	-.000	-.000	6	-.066	-.006	6	-.235	-.209	6	-.073	-.073	6	-.073	-.073	
7	-.000	-.000	-.000	7	-.000	-.000	7	-.023	-.019	7	-.191	-.047	7	-.202	-.202	7	-.202	-.202	
8	-.000	-.000	-.000	8	-.000	-.000	8	-.023	-.019	8	-.191	-.047	8	-.202	-.202	8	-.202	-.202	
9	-.000	-.000	-.000	9	-.000	-.000	9	-.055	-.036	9	-.099	-.121	9	-.251	-.251	9	-.251	-.251	
10	-.000	-.000	-.000	10	-.000	-.000	10	-.055	-.036	10	-.099	-.12							

\*\*\* BALL PRESSURE, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 -062		W4 -125		W5 -250		W7 -750		W8 -875		W9 -938	
	N	CPREAL CPIMAG	N	CPREAL CPIMAG	N	CPREAL CPIMAG	N	CPREAL CPIMAG	N	CPREAL CPIMAG	N	CPREAL CPIMAG
1	-6.157	328	-8.289	2.831	-4.334	716	-2.127	1.022	-1.922	1.187	-1.890	1.139
2	-2.017	328	-1.536	-1.365	-4.296	-2.118	-1.047	-1.127	-0.014	-1.187	-0.019	-1.237
3	-2.267	-450	-1.032	-0.536	-1.125	-0.21	-0.47	-0.65	-0.177	-0.233	-1.066	-0.045
4	-0.073	045	0.065	-0.099	-0.095	-0.064	0.031	0.12	-0.051	-0.028	-0.058	-0.049
5	-1.113	074	0.017	-0.097	0.14	0.089	-0.033	0.029	-0.029	0.085	-0.001	-0.090
6	-0.099	002	-0.092	-0.034	-0.035	-0.031	0.026	0.008	0.001	-0.013	-0.008	-0.012
7	-0.005	003	-0.092	0.007	0.027	-0.043	-0.033	-0.037	0.038	-0.041	-0.043	-0.039
8	-0.005	005	-0.013	-0.078	0.027	-0.043	0.033	-0.019	0.009	0.008	0.003	-0.004
9	-0.034	007	-0.045	-0.014	-0.022	-0.013	-0.001	0.010	-0.010	-0.006	-0.006	-0.010
10	-0.047	007	-0.045	-0.032	-0.021	-0.022	0.001	-0.010	-0.010	-0.027	-0.052	-0.014



MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 18 ALPHA-MCL = 2.0 POP RUN-PT 5.10  
 PUN 5 ALPHA-BAR = 2.0 O-COMP = .32398  
 POINT 6 SIGMA = -90. V-REF = 199.60  
 COMPUTED FREQUENCY = 18.97, K = .1493

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

N	CP-MAG	PHI
1	24.775	149.81
2	.491	243.77
3	.992	56.76
4	.919	129.8A
5	.479	202.22
6	.399	42.52
7	.606	132.27
8	.102	190.11
9	.182	143.84
10	.322	137.99

X=.012  
 SUCTION

N	CP-MAG	PHI
1	21.021	152.19
2	5.263	200.03
3	1.272	266.03
4	.102	93.58
5	.492	176.99
6	.542	242.33
7	.183	270.99
8	.151	161.74
9	.128	214.96
10	.261	152.77

X=.030  
 SUCTION

N	CP-MAG	PHI
1	7.068	156.17
2	.304	353.63
3	.163	34.75
4	.104	312.44
5	.074	264.20
6	.086	264.20
7	.038	294.78
8	.026	248.46
9	.041	168.46
10	.044	168.46

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# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 18 ALPHA-MCL = 2.0 POP RUN-PT 5.10  
 RUN 18 ALPHA-BAR = 32.398  
 POINT 6 SIGMA = 36.0  
 COMPUTED FREQUENCY = 18.97, K = .1493  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X:062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	6.971 159.28	6.717 159.69	6.926 160.09	6.699 158.62	7.315 157.92	6.579 150.14
2	.026 173.17	.137 295.86	.102 332.60	.186 308.75	.194 311.93	.030 328.36
3	.123 51.50	.128 82.06	.023 352.60	.052 167.17	.177 371.39	.049 320.75
4	.015 82.22	.025 269.39	.051 348.71	.046 336.24	.107 401.64	.016 351.49
5	.058 57.51	.029 275.61	.059 366.91	.012 187.64	.054 427.85	.034 371.25
6	.029 275.61	.061 219.88	.026 122.59	.049 187.64	.167 453.21	.042 379.39
7	.097 309.45	.033 218.48	.026 357.71	.056 286.43	.153 433.27	.042 379.39
8	.178 143.22	.069 166.64	.050 92.66	.022 223.58	.050 109.16	.032 257.89
9	.146 143.22	.069 166.64	.050 92.66	.022 223.58	.035 157.53	.032 257.89
10	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00

## \*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 N CP-MAG PHI	W4 N CP-MAG PHI	W5 N CP-MAG PHI	W7 N CP-MAG PHI	W8 N CP-MAG PHI	W9 N CP-MAG PHI
1	9.233 152.05	8.755 161.14	4.294 170.40	2.360 170.40	2.245 170.40	2.238 170.40
2	.523 239.24	.537 266.62	.127 326.08	.161 326.08	.178 326.08	.192 326.08
3	.086 148.34	.119 204.36	.114 227.37	.052 227.37	.058 227.37	.073 227.37
4	.118 163.99	.038 243.37	.043 268.26	.010 268.26	.013 268.26	.017 268.26
5	.101 178.61	.092 275.71	.036 302.33	.010 302.33	.013 302.33	.017 302.33
6	.077 175.70	.074 269.40	.051 326.70	.020 326.70	.026 326.70	.031 326.70
7	.037 224.24	.019 269.40	.026 326.70	.011 326.70	.018 326.70	.023 326.70
8	.048 171.79	.055 215.49	.030 226.70	.019 226.70	.028 226.70	.033 226.70
9	.048 171.79	.055 215.49	.030 226.70	.019 226.70	.028 226.70	.033 226.70
10	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00	.000 .00

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 8 ALPHA-MCL = 2.0 PDP RUN.PT 4.02  
 RUN 4 ALPHA-BAR = 2.0 O-COMP = 33154  
 POINT 2 SIGMA = -45. V-REF = 202.02  
 COMPUTED FREQUENCY = 9.09, K = .0707

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

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BLADE NO.  
 XE-005  
 SUCTION

N CPREAL CPIMAG  
 1-13-251-16.895  
 2 .612 .506  
 3 .275 .156  
 4 .408 1.001  
 5 .353 .729  
 6 .026 .142  
 7 .241 .206  
 8 .057 .155  
 9 .013 .025  
 10 .086 .049

XE-012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1.920	-16.461	1	-13.126	10.878	1	-.800	14.221	1	.052	1.561
2	-.347	-1.808	2	-1.025	-.142	2	-.071	1.180	2	.477	-1.046
3	-.020	1.437	3	-.127	-1.030	3	-.045	.078	3	.026	-.007
4	-.059	.189	4	-.214	.310	4	-.062	.045	4	-.023	-.007
5	.005	.439	5	-.034	-.043	5	.111	-.042	5	.057	-.066
6	.094	.156	6	-.015	-.043	6	-.123	-.073	6	.056	-.026
7	.090	.015	7	-.007	.070	7	-.008	-.030	7	.010	-.038
8	-.118	-.118	8	-.023	.027	8	-.008	-.044	8	-.026	-.012
9	.147	.051	9	-.171	-.013	9	-.021	-.039	9	.011	-.031
10	-.118	.051	10	-.171	-.013	10	-.021	-.039	10	.011	-.031

XE-030  
 SUCTION

N CPREAL CPIMAG  
 1-3-513-5.393  
 2 .282 .103  
 3 .116 .138  
 4 .109 .047  
 5 .016 .053  
 6 .064 .037  
 7 .068 .033  
 8 .019 .029  
 9 .007 .029  
 10 .016 .006

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 3 ALPHA-MCL = 2.0 PDP RUN-PT 4.02  
 RUN 4 ALPHA-BAR = 2.0 O-COMP = .33154  
 POINT 2 SIGMA = -45. V-REF = .202.02  
 COMPUTED FREQUENCY = 9.09, K = .0707

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SUCTION						
1	1.358	-5.396	1.2	-5.975	-1.350	1.2
2	-.014	-.058	1	-.149	-.119	1
3	-.023	-.143	2	-.081	-.184	2
4	-.108	-.127	3	-.134	-.003	3
5	-.026	-.017	4	-.075	-.003	4
6	-.081	-.092	5	-.104	-.003	5
7	-.038	-.048	6	-.040	-.006	6
8	-.013	-.019	7	-.003	-.010	7
9	-.006	-.020	8	-.003	-.012	8
10	-.010	-.002	9	-.037	-.023	9
			10	-.010	-.023	10
X=.012 PRESSURE						
1	-.148	11.002	1	8.904	-.376	1
2	-.125	-.936	2	-.033	-.612	2
3	-.040	-.015	3	-.123	-.120	3
4	-.178	-.115	4	-.108	-.054	4
5	-.086	-.087	5	-.049	-.008	5
6	-.095	-.012	6	-.034	-.008	6
7	-.070	-.046	7	-.012	-.027	7
8	-.001	-.037	8	-.036	-.002	8
9	-.012	-.031	9	-.023	-.002	9
10	-.019	-.021	10	-.023	-.002	10

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	M3 .062	M4 .125	M5 .250	M7 .750	M8 .875	M9 .938
1	-6.079	4.446	1	1.088	-2.201	-2.151
2	-1.149	-.377	2	1.015	-.206	-.249
3	-.228	-.373	3	-.022	-.032	-.047
4	-.133	-.061	4	-.027	-.046	-.112
5	-.078	-.025	5	-.027	-.046	-.042
6	-.008	-.013	6	-.025	-.046	-.042
7	-.024	-.010	7	-.006	-.015	-.012
8	-.024	-.025	8	-.009	-.007	-.007
9	-.047	-.013	9	-.009	-.007	-.008
10			10	-.035	-.017	-.025

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 8 ALPHA-MCL = 2.0 POW RUN PT 4.02  
 PUN 4 ALPHA-BAR = 2.0 Q-COMP = 33154  
 POINT 2 SIGMA = -45. V-REF = 202.02

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=02  
 SUCTION

N	CP-MAG	PHI
1	21.872	141.89
2	1.043	209.00
3	.316	60.38
4	1.081	112.17
5	.810	154.18
6	.144	100.59
7	.117	149.50
8	.165	110.11
9	.096	172.43
10	.099	129.24

X=012  
 SUCTION

N	CP-MAG	PHI
1	16.573	141.65
2	1.346	185.35
3	1.308	224.74
4	.441	277.50
5	.189	133.50
6	.449	192.14
7	.181	195.07
8	.119	172.95
9	.138	184.26
10	.129	246.77

X=030  
 SUCTION

N	CP-MAG	PHI
1	6.436	146.92
2	.301	339.95
3	.180	40.19
4	.119	203.38
5	.055	343.04
6	.085	138.41
7	.087	309.07
8	.035	303.22
9	.030	166.72
10	.017	119.66

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N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	14.243	138.22	1	17.048	140.35	1	14.395	138.93	1	17.021	143.83
2	1.182	183.42	2	3.029	182.69	2	.423	197.59	2	3.273	189.37
3	.116	176.96	3	1.466	225.24	3	.250	159.49	3	1.157	240.68
4	.105	334.78	4	.263	241.11	4	.178	310.78	4	.459	258.89
5	.062	45.68	5	.377	124.55	5	.068	157.99	5	.085	193.93
6	.118	249.27	6	.252	185.29	6	.157	54.79	6	.269	172.65
7	.077	202.74	7	.282	210.26	7	.036	247.33	7	.116	277.85
8	.031	285.34	8	.076	111.23	8	.029	251.63	8	.064	251.78
9	.020	339.63	9	.172	184.46	9	.089	120.77	9	.064	33.09
10	.033	331.36	10	.044	184.46	10	.089	120.77	10	.179	42.51

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 8 ALPHA-MCL = 2.0 POP RUN-PT 4.02  
 RUN 4 ALPHA-BAR = 2.0 G-COMP = .33154  
 POINT 2 ALPHA SIGMA = -.45 V-REF = 202.02  
 COMPUTED FREQUENCY = 9.09, K = .0707

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
X=.062 SUCTION	1	5.564	149.135	1	5.595	149.47	1	6.126	147.73	1	5.941	150.56	1	5.541	148.04	1	6.264	148.89
	2	.059	146.35	2	.122	275.78	2	.191	308.52	2	.169	342.44	2	.255	180.59	2	.269	272.43
	3	.145	135.91	3	.109	7.36	3	.201	111.58	3	.131	171.44	3	.128	165.98	3	.169	165.98
	4	.110	348.75	4	.128	187.79	4	.140	116.58	4	.125	181.18	4	.133	9.36	4	.125	42.37
	5	.044	351.67	5	.019	189.33	5	.075	137.40	5	.015	113.05	5	.033	59.65	5	.030	42.85
	6	.088	247.29	6	.075	147.76	6	.107	176.40	6	.138	239.74	6	.102	252.32	6	.076	163.23
	7	.062	83.49	7	.075	130.27	7	.057	269.96	7	.051	233.54	7	.057	206.32	7	.048	216.80
	8	.023	304.59	8	.017	312.37	8	.011	208.94	8	.027	298.40	8	.022	299.58	8	.020	313.78
	9	.006	46.91	9	.029	154.37	9	.010	121.90	9	.042	219.23	9	.035	321.17	9	.033	315.88
	10	.010	258.93	10	.026	23.19	10	.044	121.90	10	.042	219.23	10	.035	321.17	10	.033	315.88
X=.012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	11.003	315.77	1	8.912	312.58	1	10.635	310.19	1	12.573	304.38	1	12.573	304.38	1	17.752	313.02
	2	.944	172.41	2	.678	187.95	2	.854	158.99	2	.854	158.99	2	1.404	184.59	2	.460	178.18
	3	.043	155.80	3	.125	119.84	3	.245	303.57	3	.172	181.74	3	1.602	252.91	3	.297	278.97
	4	.212	179.21	4	.139	127.61	4	.026	266.92	4	.026	266.92	4	.133	118.89	4	.873	278.97
	5	.122	262.52	5	.108	99.46	5	.041	20.71	5	.065	324.85	5	.021	352.23	5	.230	340.96
	6	.096	348.48	6	.051	357.90	6	.058	248.05	6	.058	248.05	6	.094	352.23	6	.630	340.96
	7	.038	268.33	7	.039	287.90	7	.055	138.20	7	.055	138.20	7	.195	307.48	7	.767	348.99
	8	.033	294.43	8	.045	298.25	8	.055	138.20	8	.055	138.20	8	.195	307.48	8	.271	262.84
	9	.028	138.71	9	.023	276.12	9	.055	138.20	9	.055	138.20	9	.195	307.48	9	.074	262.84
	10			10			10			10			10			10	.320	172.37
*** WALL PRESSURES, PER RADIAN ***																		
WALL NO.	W3			W4			W5			W7			W8			W9		
GAP FRACTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	7.531	143.82	1	7.499	156.08	1	4.283	163.89	1	2.572	198.43	1	2.422	204.69	1	2.498	207.71
	2	1.209	161.61	2	1.072	208.92	2	.047	19.18	2	.193	19.49	2	.248	8.57	2	.269	359.56
	3	.446	236.72	3	.649	264.07	3	.262	270.48	3	.287	272.49	3	.257	260.81	3	.269	359.56
	4	.236	165.07	4	.184	210.25	4	.171	200.27	4	.159	176.17	4	.142	182.81	4	.132	182.81
	5	.135	169.20	5	.086	184.13	5	.042	146.74	5	.032	146.74	5	.053	149.03	5	.038	159.10
	6	.104	329.52	6	.102	317.44	6	.051	240.55	6	.145	261.44	6	.135	248.43	6	.115	255.55
	7	.030	198.74	7	.087	208.71	7	.027	261.44	7	.008	144.17	7	.019	82.20	7	.011	255.55
	8	.035	160.36	8	.042	250.84	8	.033	286.79	8	.042	271.13	8	.042	271.13	8	.029	271.13
	9	.049	195.77	9	.063	207.21	9	.030	204.79	9	.042	271.13	9	.042	271.13	9	.029	271.13
	10			10			10			10			10			10		

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

**BLADE NO.**

**SUCIION**

N	CPREAL	CPIMAG
1	-13.	114.-15.
2	273	.873
3	4	.013
4	5	-1931
5	6	.407
6	7	.205
7	8	.294
8	9	.039
9	0	.059
0		.115

**X=012  
SUC TION**

N	CPREAL	CPIFAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	.643	-16	1	-10	.670	1	-12	.849	1	-11	.777	1	-.078	.13	1	-.078	.13
2	.323	-1	2	-3	.366	2	-.012	.056	2	-2	.935	2	-.018	.899	2	-.018	.899
3	.277	1	3	-.059	-.270	3	-.009	.049	3	-1	.023	3	-.003	.024	3	-.003	.024
4	.299	1	4	-.064	.166	4	-.004	.051	4	-1	.150	4	-.002	.051	4	-.002	.051
5	.263	1	5	-.061	.237	5	-.024	.029	5	-1	.196	5	-.024	.051	5	-.024	.051
6	.299	1	6	-.064	.237	6	-.024	.029	6	-1	.196	6	-.024	.051	6	-.024	.051
7	.263	1	7	-.061	.237	7	-.024	.029	7	-1	.196	7	-.024	.051	7	-.024	.051
8	.299	1	8	-.064	.237	8	-.024	.029	8	-1	.196	8	-.024	.051	8	-.024	.051
9	.263	1	9	-.061	.237	9	-.024	.029	9	-1	.196	9	-.024	.051	9	-.024	.051
0	.041	0	0	-.113	-.027	0	-.034	.030	0	-.057	.057	0	-.042	.016	0	-.042	.016

**SUCTION**  
**X=.030**

N	CPREAL	CPIMAG
1	-3.285	-5.109
2	-1.358	-0.052
3	-1.06	-0.000
4	-0.66	-0.065
5	-0.74	-0.079
6	-0.050	-0.074
7	-0.055	-0.374
8	-0.025	-0.314
9	-0.006	-0.020
0	-0.014	-0.000

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

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FILE 10 ALPHA-MCL = 2.0 POP RUN.PT 4.05
RUN 4 ALPHA-BAR = 2.0 Q-COMP = .32340
POINT 4 SIGMA = -.45 V-REF = .199.49
COMPUTED FREQUENCY = 15.49, N = .1220

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

[illegible]

\*\*\* WALL PRESSURE, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062			W4 .125			W5 .250			W7 .750			W8 .875			W9 .938		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-5.102	4.179	2.753	-5.834	4.179	2.753	-3.318	9.99	9.99	-1.766	1.075	1.075	1	-1.536	-1.274	1	-1.525	-1.354
2	-1.263	.227	2.626	-1.026	.084	2.522	-.142	-.182	-.042	-.112	-.086	2	.002	.144	2	.037	.169	
3	-1.195	-.102	2.522	-.012	.084	2.415	.017	.084	.039	-.086	.013	3	.007	.125	3	.002	.085	
4	-.488	.089	2.415	.073	-.093	2.308	-.093	-.081	-.064	-.013	-.008	4	-.069	-.052	4	-.072	-.041	
5	-.067	.017	2.308	-.067	.067	2.199	-.003	.065	-.005	.000	.007	5	.001	-.003	5	-.003	.002	
6	-.035	.009	2.199	-.065	.044	2.088	-.044	.044	-.054	-.007	-.007	6	-.042	-.003	6	-.057	.002	
7	-.002	-.049	2.088	-.014	.019	2.055	.019	.019	-.020	-.010	-.010	7	.006	.000	7	.015	.009	
8	-.002	.015	2.055	-.007	.001	2.023	.001	.027	.002	.021	.021	8	.005	.000	8	.005	.009	
9	-.018	.020	2.023	-.013	.023	2.021	-.023	.023	-.038	.038	.038	9	.026	.022	9	.003	.027	
10	-.018	.020	2.021	-.013	.023	2.021	-.023	.023	-.038	.038	.038	10	.026	.022	10	-.003	.027	



OCWT PERIODICITY TEST  
 MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS  
 FILE 10 ALPHA-MCL = 2.0 POP RUN.PT 4.05  
 PUN 4 ALPHA-BAR = 2.0 O-COMP = 32340  
 POINT 4 SIGMA = 45.5 V-REF = 199.49  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
 COMPUTED FREQUENCY = 15.49, K = .1223  
 UNBIASED PHASE ANGLE

BLADE NO. 3

X=005  
SUCTION

9

7

6

5

4

N	CP-MAG	PHI
1	20.153	139.40
2	.915	197.41
3	.362	63.89
4	.931	90.82
5	.559	136.62
6	.320	320.06
7	.356	34.16
8	.075	31.67
9	.074	322.94
10	.119	289.97

X=012  
SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	16.543	137.23	1	17.140	141.50	1	15.963	137.54	1	13.528	137.42
2	3.419	174.51	2	1.366	179.99	2	1.039	176.84	2	1.069	191.27
3	1.562	211.44	3	1.140	216.29	3	1.021	213.83	3	.083	198.57
4	.713	235.69	4	.276	257.67	4	.324	265.95	4	.053	199.07
5	.326	268.68	5	.174	272.02	5	.427	105.83	5	.060	13.66
6	.384	122.96	6	.244	194.52	6	.400	150.83	6	.011	88.40
7	.243	172.48	7	.060	216.21	7	.064	178.58	7	.050	200.77
8	.005	200.79	8	.059	35.97	8	.064	206.91	8	.029	215.58
9	.057	169.59	9	.157	34.49	9	.029	91.85	9	.023	232.93
10	.070	144.23	10	.137	34.49	10	.091	128.78	10	.038	

X=030  
SUCTION

N	CP-MAG	PHI
1	6.074	147.26
2	.362	351.66
3	.186	89.86
4	.089	227.11
5	.108	316.97
6	.068	304.28
7	.055	246.97
8	.042	306.00
9	.014	1.75
10	.024	234.38

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 10 ALPHA-MCL = 2.0 PDP RUN-PT 4.05  
 RUN 4 ALPHA-BAR = 32340 Q-COMP =  
 POINT 4 SIGMA = -45. V-REF = 199.49  
 COMPUTED FREQUENCY = 15.49, K = .1220  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
X=0.062 SUCTION	1	5.628	147.85	1	5.362	151.39	1	5.615	148.43	1	5.247	148.87	1	5.950	147.99	1	6.096	149.01
	2	.214	301.05	2	.133	127.66	2	.028	77.71	2	.131	276.94	2	.134	277.13	2	.042	195.16
	3	.126	18.71	3	.075	205.97	3	.128	36.51	3	.064	53.34	3	.027	272.65	3	.055	195.28
	4	.077	15.70	4	.052	330.92	4	.065	132.36	4	.032	104.72	4	.035	330.12	4	.041	287.73
	5	.087	12.88	5	.080	288.70	5	.065	132.36	5	.009	161.26	5	.035	330.12	5	.012	287.73
	6	.057	15.67	6	.057	334.10	6	.051	198.67	6	.030	139.26	6	.049	109.39	6	.014	308.45
	7	.042	172.61	7	.028	309.83	7	.027	317.46	7	.019	96.24	7	.009	123.09	7	.019	305.95
	8	.024	343.52	8	.012	22.92	8	.045	63.84	8	.027	178.74	8	.035	175.65	8	.022	223.17
	9	.073	277.41	9	.025	260.29	9	.018	63.84	9	.027	178.74	9	.035	175.65	9	.022	223.17
	10	.018	213.64	10	.025	260.29	10	.018	63.84	10	.027	178.74	10	.035	175.65	10	.022	223.17
X=0.12 PRESSURE	1	.000	.00	1	.000	.00	1	.000	.00	1	.000	.00	1	.000	.00	1	.000	.00
	2	.000	.00	2	.000	.00	2	.000	.00	2	.000	.00	2	.000	.00	2	.000	.00
	3	.000	.00	3	.000	.00	3	.000	.00	3	.000	.00	3	.000	.00	3	.000	.00
	4	.000	.00	4	.000	.00	4	.000	.00	4	.000	.00	4	.000	.00	4	.000	.00
	5	.000	.00	5	.000	.00	5	.000	.00	5	.000	.00	5	.000	.00	5	.000	.00
	6	.000	.00	6	.000	.00	6	.000	.00	6	.000	.00	6	.000	.00	6	.000	.00
	7	.000	.00	7	.000	.00	7	.000	.00	7	.000	.00	7	.000	.00	7	.000	.00
	8	.000	.00	8	.000	.00	8	.000	.00	8	.000	.00	8	.000	.00	8	.000	.00
	9	.000	.00	9	.000	.00	9	.000	.00	9	.000	.00	9	.000	.00	9	.000	.00
	10	.000	.00	10	.000	.00	10	.000	.00	10	.000	.00	10	.000	.00	10	.000	.00

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062			W4 .125			W5 .250			W7 .750			W8 .875			W9 .938		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	6.595	140.68	1	6.451	154.74	1	3.440	164.68	1	2.067	211.33	1	1.995	219.68	1	2.040	221.60
	2	.220	169.75	2	.202	211.38	2	.231	238.49	2	.119	244.66	2	.144	249.93	2	.085	261.66
	3	.145	176.51	3	.136	223.85	3	.086	222.25	3	.065	191.68	3	.073	197.54	3	.083	209.98
	4	.129	139.57	4	.089	194.19	4	.065	162.54	4	.040	196.71	4	.052	197.04	4	.043	207.13
	5	.073	173.11	5	.066	186.97	5	.045	168.73	5	.034	171.60	5	.047	170.33	5	.058	173.19
	6	.055	242.54	6	.057	284.39	6	.026	315.06	6	.033	187.60	6	.006	177.57	6	.017	327.57
	7	.015	96.92	7	.024	106.24	7	.023	93.18	7	.022	333.12	7	.034	79.36	7	.027	136.80
	8	.028	47.95	8	.024	120.86	8	.033	135.79	8	.044	151.20	8	.034	139.56	8	.031	136.80
	9			9			9			9			9			9		
	10			10			10			10			10			10		

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 12 ALPHA-MCL = 2.0 POP RUN-PI 4.08  
 RUN 4 ALPHA-BAR = 2.0 Q-COMP = 12.08  
 POINT 6 SIGMA = -45. V-REF = 159.70  
 COMPUTED FREQUENCY = 15.14, K = .1506

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=0.05  
 SUCTION

N	CPREAL	CPIMAG
1	-13.795	-14.908
2	.986	.163
3	.234	.330
4	.196	1.037
5	-.446	-.389
6	-.285	-.004
7	-.230	-.290
8	-.039	.101
9	-.094	.028
10	-.088	-.081

X=0.12  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-205	-15.972	1	-11.253	-12.842	1	-11.592	10.806
2	.699	3.198	2	3.378	-.219	2	-2.737	.296
3	-.430	-1.421	3	-.660	.926	3	-1.106	-.273
4	.129	.732	4	.043	-.305	4	-.047	-.261
5	.404	.064	5	.119	-.027	5	-.060	-.259
6	-.353	-.249	6	.176	-.124	6	.313	.137
7	-.255	-.039	7	.042	-.100	7	-.219	.023
8	-.046	-.221	8	-.076	.084	8	-.002	.092
9	.024	-.140	9	-.191	.140	9	.012	-.183
10			10	-.153	-.153	10	-.181	.121

X=0.30  
 SUCTION

N	CPREAL	CPIMAG
1	-3.497	-4.640
2	-.245	.085
3	.113	-.109
4	.068	.301
5	-.067	.040
6	-.022	.042
7	-.031	-.018
8	-.008	-.029
9	-.004	-.026
10		

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 12 ALPHA-MCL = 2.0 POP RUN.PT 4.08  
 RUN 4 ALPHA-BAR = 2.0 Q-COMP = .32408  
 POINT 6 SIGMA = -.45 V-REF = 199.70  
 COMPUTED FREQUENCY = 19.14, K = .1506

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* SLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SUCTION						
1	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
2	1	-.840	-.215	1	2	5.960
3	2	-.050	-.033	2	3	1.116
4	3	-.064	-.002	3	4	-.087
5	4	.117	-.054	4	5	-.082
6	5	.059	-.078	5	6	-.005
7	6	.004	-.022	6	7	-.018
8	7	.083	-.059	7	8	-.035
9	8	-.008	-.015	8	9	-.022
10	9	-.002	-.026	9	10	-.059
	10	.227	-.075	10		-.037
X=.012 PRESSURE						
1	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
2	1	.000	.000	1	2	1.679
3	2	.000	.000	2	3	1.793
4	3	.000	.000	3	4	1.186
5	4	.000	.000	4	5	1.128
6	5	.000	.000	5	6	1.200
7	6	.000	.000	6	7	1.235
8	7	.000	.000	7	8	1.301
9	8	.000	.000	8	9	1.062
10	9	.000	.000	9	10	1.217

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3	W4	W5	W6	W7	W9
1	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
2	1	-.525	-.063	1	2	1.911
3	2	-.041	-.021	2	3	1.180
4	3	-.063	-.063	3	4	-.029
5	4	-.039	-.035	4	5	-.022
6	5	-.029	-.016	5	6	-.021
7	6	-.029	-.031	6	7	-.006
8	7	-.003	-.008	7	8	-.027
9	8	-.014	-.027	8	9	-.017
10	9	-.090	-.039	9	10	-.016
	10	.034	-.018	10		-.035

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 12 ALPHA-MCL = 2.0 PDP RUN.PT 4.08  
 PUN 4 ALPHA-SAR = 2.0 O-COMP = .3208  
 POINT 6 SIGMA = -.45 V-REF = 196.70  
 COMPUTED FREQUENCY = 19.14, K = .1506

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=.005  
 SUCTION

3	4	5	6	7	9
N CP-MAG	PHI	N CP-MAG	PHI	N CP-MAG	PHI
1 20.311	137.32	1 17.075	138.77	1 15.973	134.26
2 .999	189.37	2 1.385	176.29	2 1.273	167.67
3 .405	35.31	3 1.137	215.47	3 1.485	208.16
4 1.056	79.30	4 .308	278.05	4 .356	248.75
5 .592	131.13	5 .122	102.73	5 .454	53.56
6 .285	359.24	6 .218	144.08	6 .355	129.05
7 .354	35.81	7 .099	157.43	7 .067	179.54
8 .108	110.38	8 .157	121.65	8 .265	215.51
9 .098	286.59	9 .245	339.55	9 .142	211.51
10 .119	42.62	10 .245	339.55	10 .142	211.51

X=.012  
 SUCTION

N CP-MAG	PHI	N CP-MAG	PHI	N CP-MAG	PHI
1 17.075	138.77	1 13.071	136.60	1 13.071	136.60
2 1.385	176.29	2 .409	190.08	2 .753	177.84
3 1.137	215.47	3 .132	131.15	3 .295	211.53
4 .308	278.05	4 .101	262.88	4 .266	259.69
5 .122	102.73	5 .030	52.97	5 .242	103.10
6 .218	144.08	6 .036	280.36	6 .242	156.46
7 .099	157.43	7 .037	164.77	7 .023	155.61
8 .157	121.65	8 .104	134.10	8 .183	195.10
9 .245	339.55	9 .143	353.19	9 .218	186.34
10 .245	339.55	10 .143	353.19	10 .218	186.34

X=.030  
 SUCTION

N CP-MAG	PHI	N CP-MAG	PHI	N CP-MAG	PHI
1 17.075	138.77	1 13.071	136.60	1 13.071	136.60
2 1.385	176.29	2 .409	190.08	2 .753	177.84
3 1.137	215.47	3 .132	131.15	3 .295	211.53
4 .308	278.05	4 .101	262.88	4 .266	259.69
5 .122	102.73	5 .030	52.97	5 .242	103.10
6 .218	144.08	6 .036	280.36	6 .242	156.46
7 .099	157.43	7 .037	164.77	7 .023	155.61
8 .157	121.65	8 .104	134.10	8 .183	195.10
9 .245	339.55	9 .143	353.19	9 .218	186.34
10 .245	339.55	10 .143	353.19	10 .218	186.34

N CP-MAG	PHI	N CP-MAG	PHI	N CP-MAG	PHI
1 17.075	138.77	1 13.071	136.60	1 13.071	136.60
2 1.385	176.29	2 .409	190.08	2 .753	177.84
3 1.137	215.47	3 .132	131.15	3 .295	211.53
4 .308	278.05	4 .101	262.88	4 .266	259.69
5 .122	102.73	5 .030	52.97	5 .242	103.10
6 .218	144.08	6 .036	280.36	6 .242	156.46
7 .099	157.43	7 .037	164.77	7 .023	155.61
8 .157	121.65	8 .104	134.10	8 .183	195.10
9 .245	339.55	9 .143	353.19	9 .218	186.34
10 .245	339.55	10 .143	353.19	10 .218	186.34

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 12 ALPHA-MCL = 2.0 POP RUN.PI 4.08  
 POINT 6 ALPHA-BAR = 2.0 G-COMP = 124.08  
 POINT 6 SIGMA = -45. V-REF = 199.70  
 COMPUTED FREQUENCY = 19.14. K = .1506

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
X=.062	1	5.282	144.15	1	5.295	145.52	1	5.784	145.09	1	5.468	148.22	1	0.074	195.95	1	5.569	195.23
SUCTION	2	.060	303.67	2	.051	278.93	2	.107	311.15	2	.126	337.99	2	.087	190.46	2	.118	197.32
	3	.061	312.67	3	.059	311.14	3	.108	218.71	3	.073	177.99	3	.087	235.67	3	.085	239.47
	4	.098	335.80	4	.077	311.54	4	.035	103.87	4	.008	332.61	4	.057	231.08	4	.055	241.50
	5	.023	350.96	5	.028	248.56	5	.035	229.84	5	.019	232.61	5	.039	162.02	5	.065	245.11
	6	.102	170.48	6	.029	209.38	6	.066	159.85	6	.051	240.24	6	.036	163.34	6	.039	245.11
	7	.017	241.80	7	.027	197.38	7	.056	195.11	7	.028	100.91	7	.075	229.20	7	.059	230.02
	8	.263	315.50	8	.027	14.66	8	.057	17.46	8	.051	100.91	8	.058	162.02	8	.059	230.02
	9	.239	71.79	9	.033	96.26	9	.082	100.63	9	.065	187.86	9	.037	229.20	9	.062	236.34
	10			10			10			10			10			10		
X=.012	N			N			N			N			N			N		
PRESSURE	1	.000	.00	1	8.664	309.83	1	8.664	309.83	1	10.188	308.30	1	10.188	308.30	1	10.188	308.30
	2	.000	.00	2	.000	173.72	2	.000	173.72	2	.046	166.14	2	.046	166.14	2	.046	166.14
	3	.000	.00	3	.000	204.37	3	.000	204.37	3	.104	162.84	3	.104	162.84	3	.104	162.84
	4	.000	.00	4	.027	203.73	4	.027	203.73	4	.034	142.84	4	.034	142.84	4	.034	142.84
	5	.000	.00	5	.005	187.64	5	.005	187.64	5	.034	142.84	5	.034	142.84	5	.034	142.84
	6	.000	.00	6	.005	281.61	6	.005	281.61	6	.022	305.97	6	.022	305.97	6	.022	305.97
	7	.000	.00	7	.031	121.36	7	.031	121.36	7	.060	236.78	7	.060	236.78	7	.060	236.78
	8	.000	.00	8	.068	282.17	8	.068	282.17	8	.072	338.59	8	.072	338.59	8	.072	338.59
	9	.000	.00	9			9			9			9			9		
	10	.000	.00	10			10			10			10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	W3			W4			W5			W6			W7			W8		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
GAP FRACTION	1	6.845	140.10	1	6.729	153.88	1	3.771	162.82	1	2.777	201.18	1	2.777	201.18	1	2.777	201.18
	2	.139	162.27	2	.943	209.49	2	.055	309.01	2	.127	250.33	2	.127	250.33	2	.127	250.33
	3	.172	114.44	3	.041	35.31	3	.055	64.02	3	.122	250.33	3	.122	250.33	3	.122	250.33
	4	.107	158.39	4	.060	230.55	4	.055	19.57	4	.122	250.33	4	.122	250.33	4	.122	250.33
	5	.110	122.32	5	.060	230.55	5	.055	19.57	5	.122	250.33	5	.122	250.33	5	.122	250.33
	6	.034	99.54	6	.050	108.72	6	.055	299.52	6	.037	250.33	6	.037	250.33	6	.037	250.33
	7	.030	159.51	7	.045	191.44	7	.055	116.77	7	.034	250.33	7	.034	250.33	7	.034	250.33
	8	.096		8	.092		8	.051		8	.069	240.66	8	.069	240.66	8	.069	240.66
	9			9			9			9			9			9		
	10			10			10			10			10			10		

OCWT PERIODICITY TEST  
 MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS  
 FILE 187 ALPHA-MCL = 2.0 PDP RUN:PT 2.06  
 PUN 2 ALPHA-BAR = 2.0 O-COMP = 32083  
 POINT 2 SIGMA = 0. V-REF = 198.65  
 COMPUTED FREQUENCY = 9.15, M = .0723

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

N	CPREAL	CPIMAG
1	19.623	9.323
2	-1.002	-1.315
3	.676	-.454
4	.042	.055
5	.019	-.531
6	.243	-.179
7	-.050	.145
8	-.010	.093
9	-.162	.014
10	-.007	.069

X=.012  
 SUCTION

N	CPREAL	CPIMAG
1	13.860	9.457
2	-1.776	-1.273
3	.946	-.166
4	.217	.025
5	.149	-.138
6	.020	.178
7	-.020	.004
8	-.112	-.017
9	.034	.017
10		

X=.030  
 SUCTION

N	CPREAL	CPIMAG
1	5.804	.700
2	-.058	.376
3	-.185	.031
4	-.020	.001
5	-.061	.025
6	-.082	-.053
7	-.034	.016
8	-.031	.012
9	-.031	.016
10	.014	-.028

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	10.963	1.668	1	10.718	1.332	1	9.652	.602			
2	-.214	-1.275	2	-.669	-.285	2	-.816	-.263			
3	-.003	.402	3	-.110	-.312	3	-.806	-.263			
4	-.025	.198	4	-.028	-.094	4	-.079	-.011			
5	-.031	.137	5	-.036	-.001	5	-.010	-.019			
6	-.024	-.085	6	-.043	-.113	6	-.026	-.089			
7	-.008	-.039	7	-.030	-.026	7	.044	-.005			
8	-.030	-.013	8	-.000	-.010	8	.044	-.069			
9	-.033	-.039	9	-.021	-.025	9	.007	-.038			
10	-.033	-.012	10	-.021	-.025	10	.004	-.029			

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 187 ALPHA-MCL = 2.0 POP RUN-PT 2.06  
 RUN 2 ALPHA-BAR = 2.0 O-COMP = 32083  
 POINT 2 SIGMA = 0. V-REF = 198.65  
 COMPUTED FREQUENCY = 9.15, K = .0723

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 1

X=.062  
 SUCTION

N	3		4		5		6		7		9	
	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL
1	1	-5.516	1	.050	1	-5.288	1	-5.080	1	-5.157	1	-4.988
2	2	-1.039	2	.122	2	-.080	2	-.055	2	-.103	2	-.127
3	3	-1.60	3	-.112	3	-.103	3	-.110	3	-.116	3	-.139
4	4	-.087	4	-.001	4	-.034	4	-.061	4	-.051	4	-.059
5	5	-.003	5	-.006	5	-.042	5	-.028	5	-.006	5	-.028
6	6	-.070	6	-.030	6	-.044	6	-.027	6	-.040	6	-.052
7	7	-.029	7	-.015	7	-.030	7	-.006	7	-.047	7	-.041
8	8	-.031	8	-.011	8	-.025	8	-.009	8	-.035	8	-.017
9	9	-.005	9	-.006	9	-.018	9	-.033	9	-.005	9	-.050
10	10		10		10		10		10		10	
X=.012												
PRESSURE												
1	1	9.838	1	-4.710	1	7.267	1	8.151	1	6.426	1	6.471
2	2	-.454	2	-.610	2	-.242	2	-.236	2	-.508	2	-.230
3	3	-.142	3	-.280	3	-.179	3	-.187	3	-.299	3	-.170
4	4	-.056	4	-.001	4	-.085	4	-.106	4	-.170	4	-.030
5	5	-.188	5	-.041	5	-.083	5	-.070	5	-.107	5	-.071
6	6	-.005	6	-.026	6	-.049	6	-.035	6	-.035	6	-.071
7	7	-.015	7	-.037	7	-.037	7	-.035	7	-.037	7	-.124
8	8	-.144	8	-.082	8	-.091	8	-.111	8	-.087	8	-.124
9	9	-.006	9	-.004	9	-.027	9	-.009	9	-.012	9	-.053
10	10	-.029	10	-.059	10	-.040	10	-.030	10	-.026	10	-.053

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. 3  
 GAP FRACTION

N	3		4		5		6		7		8		9	
	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL
1	1	-5.886	1	.170	1	-3.450	1	-5.55	1	-1.148	1	-1.199	1	-1.191
2	2	-.202	2	-.131	2	-.077	2	-.138	2	-.259	2	-.310	2	-.310
3	3	-.088	3	-.092	3	-.135	3	-.206	3	-.283	3	-.313	3	-.310
4	4	-.072	4	-.021	4	-.054	4	-.013	4	-.056	4	-.055	4	-.052
5	5	-.069	5	-.013	5	-.024	5	-.054	5	-.037	5	-.055	5	-.052
6	6	-.023	6	-.034	6	-.035	6	-.026	6	-.011	6	-.012	6	-.017
7	7	-.007	7	-.019	7	-.006	7	-.009	7	-.035	7	-.038	7	-.035
8	8	-.008	8	-.019	8	-.006	8	-.009	8	-.035	8	-.038	8	-.035
9	9		9		9		9		9		9		9	
10	10		10		10		10		10		10		10	



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 187 ALPHA-MCL = 2.0 PDP RUN-PT 2.06  
 RUN 2 ALPHA-BAR = 2.0 O-COMP = 32083  
 POINT 2 SIGMA = 0. V-REF = 198.65  
 COMPUTED FREQUENCY = 9.15, K = .0723

FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

XE:005  
 SUCTION

9

7

6

5

4

3

N	CP-MAG	PHI
1	20.094	167.57
2	1.669	233.09
3	.814	326.10
4	.069	52.74
5	.511	272.04
6	.104	339.01
7	.153	108.84
8	.010	164.00
9	.103	171.97
10	.069	96.23

XE:012  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	14.559	162.17	1	12.229	172.79	1	11.168	169.00	1	12.330	172.22	1	10.305	172.57	1	9.671	176.93
2	1.136	215.68	2	1.533	226.61	2	.217	188.96	2	1.401	245.33	2	.392	226.72	2	.415	220.38
3	1.238	275.24	3	.163	320.26	3	.115	332.02	3	.880	324.25	3	.239	226.55	3	.007	202.49
4	.476	339.54	4	.154	47.27	4	.043	94.41	4	.503	52.58	4	.098	106.72	4	.080	172.47
5	.203	6.65	5	.066	204.01	5	.027	158.41	5	.284	138.56	5	.036	358.41	5	.021	243.27
6	.203	316.93	6	.183	306.12	6	.062	243.01	6	.174	231.87	6	.121	249.07	6	.027	263.29
7	.297	83.61	7	.170	71.40	7	.037	111.26	7	.081	296.95	7	.058	311.15	7	.082	302.63
8	.179	175.84	8	.205	339.28	8	.031	282.51	8	.035	267.55	8	.010	268.09	8	.038	260.66
9	.118	333.71	9	.180	258.08	9	.031	282.51	9	.043	250.72	9	.033	250.56	9	.029	277.02
10	.038	333.71	10	.020	258.91	10	.012	253.78	10	.043	246.72	10	.033	250.56	10	.029	277.02

XE:030  
 SUCTION

N	CP-MAG	PHI
1	5.846	173.12
2	.381	81.16
3	.188	170.55
4	.020	177.34
5	.066	157.58
6	.097	213.12
7	.038	155.15
8	.020	141.65
9	.035	206.87
10	.031	297.32

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 187 ALPHA-MCL = 2.0 POP RUN.PT 2.06  
 RUN POINT 2 ALPHA-BAR = 2.0 D-COMP = 32083  
 COMPUTED FREQUENCY = 9.15, K = .0723  
 V-REF = 198.65  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3											
X=.062											
SUCTION											
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	5.615	169.22	1	5.127	175.78	1	5.299	176.25	1	5.084	177.66
2	.264	98.42	2	.267	94.74	2	.175	117.11	2	.179	101.96
3	.195	215.06	3	.160	219.15	3	.205	219.79	3	.183	101.21
4	.087	180.98	4	.121	140.01	4	.039	150.05	4	.064	119.77
5	.006	240.80	5	.062	189.28	5	.047	206.52	5	.067	224.60
6	.076	203.99	6	.071	228.93	6	.062	224.62	6	.062	224.60
7	.116	140.77	7	.048	133.59	7	.047	224.62	7	.046	224.60
8	.033	151.61	8	.040	140.67	8	.028	224.62	8	.034	224.60
9	.008	199.97	9	.019	207.05	9	.029	229.15	9	.036	224.60
10	.008	131.52	10	.009	203.94	10	.020	157.41	10	.036	224.60

X=.012											
PRESSURE											
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	10.908	334.42	1	7.672	341.30	1	8.535	342.75	1	6.997	336.71
2	.760	233.36	2	.446	237.10	2	.413	325.10	2	.547	321.06
3	.314	243.12	3	.340	238.78	3	.383	240.56	3	.299	180.46
4	.056	178.95	4	.089	188.67	4	.117	160.56	4	.154	180.46
5	.193	121.14	5	.099	212.34	5	.097	183.27	5	.177	196.37
6	.038	121.14	6	.052	202.34	6	.039	183.27	6	.076	196.37
7	.165	153.23	7	.037	153.23	7	.059	183.27	7	.177	196.37
8	.007	143.13	8	.101	153.23	8	.122	224.62	8	.094	224.62
9	.066	115.83	9	.039	153.23	9	.034	224.62	9	.016	224.62
10			10	.042	160.60	10	.059	120.76	10	.026	177.59

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. 3											
GAP FRACTION .062											
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	5.888	178.64	1	6.367	181.28	1	4.95	189.13	1	4.72	231.68
2	.264	220.10	2	.294	220.58	2	.212	111.32	2	.285	111.32
3	.132	262.89	3	.074	142.87	3	.057	140.16	3	.308	231.68
4	.075	196.45	4	.054	221.13	4	.033	160.31	4	.066	231.68
5	.039	238.29	5	.049	221.13	5	.059	203.92	5	.067	231.68
6	.065	227.29	6	.037	228.84	6	.084	246.05	6	.060	231.68
7	.015	248.80	7	.011	262.58	7	.020	252.36	7	.035	264.79
8	.021	248.80	8	.017	214.47	8	.073	212.23	8	.055	264.79
9			9			9			9		
10			10			10			10		

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 189 ALPHA-MCL = 2.0 POP RUN.PT 2.09  
 RUN 2 ALPHA-BAR = 2.0 Q-COMP = .32233  
 POINT 4 SIGMA = 0. V-REF = 199.13  
 COMPUTED FREQUENCY = 15.50, K = .1223

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

N CPREAL CPIMAG  
 1-17.106 4.378  
 2-.698 -1.091  
 3.974 .472  
 4.236 .018  
 5-.015 -.317  
 6.115 -.035  
 7-.040 -.028  
 8-.108 -.004  
 9-.136 -.009  
 10-.014 -.009

X=.012  
 SUCTION

N CPREAL CPIMAG  
 1-11.116 4.513  
 2-.160 .683  
 3.517 .229  
 4.289 .124  
 5-.084 .070  
 6-.127 .002  
 7.048 .001  
 8.018 .001  
 9.026 .001  
 10

X=.030  
 SUCTION

N CPREAL CPIMAG  
 1-4.718 .825  
 2.106 .335  
 3.017 .224  
 4-.030 .074  
 5.015 .090  
 6-.046 .000  
 7-.007 .059  
 8.020 .032  
 9.009 .027  
 10.034 .013

9

7

6

5

N CPREAL CPIMAG  
 1-10.867 1.581  
 2-.462 -.936  
 3.683 -.255  
 4.340 .238  
 5-.380 .261  
 6-.168 .095  
 7.010 .110  
 8.006 .032  
 9-.007 .007  
 10-.039 -.004

N CPREAL CPIMAG  
 1-9.624 1.155  
 2-.101 .235  
 3.129 .112  
 4.070 .051  
 5.116 .033  
 6-.037 .033  
 7.045 .054  
 8.072 .013  
 9-.009 .019  
 10-.022 .046

N CPREAL CPIMAG  
 1-9.400 .492  
 2-.210 .154  
 3.153 .124  
 4.009 .044  
 5.111 .109  
 6-.044 .041  
 7.043 .073  
 8.033 .007  
 9-.027 .021  
 10-.026 .067

# OCWT PERIODICITY TEST MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 189 ALPHA-MCL = 2.0 POP RUN-PT 2.09  
RUN 2 ALPHA-BAR = 2.0 Q-COMP = .32233  
POINT 4 ALPHA-SIGMA = 0.0 V-REF = .199.13  
COMPUTED FREQUENCY = 15.50, K = .1223

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9						
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-4.571	1.332	1.293	1	-4.526	.456	1	214	.377	1	214	.377
2	-.035	.697	.023	2	-.024	.137	2	.158	.045	2	.158	.045
3	-.065	-.055	.094	3	-.089	.098	3	.134	.059	3	.134	.059
4	-.043	-.203	.041	4	-.086	-.053	4	.081	.022	4	.081	.022
5	-.009	-.019	.025	5	-.084	-.012	5	.057	.101	5	.057	.101
6	-.069	-.033	.010	6	-.021	.012	6	.015	.008	6	.015	.008
7	-.027	-.037	.015	7	-.029	.023	7	.024	.021	7	.024	.021
8	.010	.004	.003	8	-.025	.024	8	.010	.016	8	.010	.016
9	.013	.004	.003	9	.058	.003	9	.043	.027	9	.043	.027
10				10			10			10		
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	.000	.000	.000	1	6.885	-2.176	1	141	927	1	353	-2.402
2	.000	.000	.000	2	-.357	.100	2	.429	.255	2	.358	.084
3	.000	.000	.000	3	.045	.099	3	.079	.222	3	.190	.336
4	.000	.000	.000	4	.085	.010	4	.030	.018	4	.133	.079
5	.000	.000	.000	5	.033	.131	5	.127	.131	5	.079	.002
6	.000	.000	.000	6	.032	.035	6	.021	.038	6	.022	.066
7	.000	.000	.000	7	.031	.002	7	.004	.017	7	.012	.026
8	.000	.000	.000	8	.010	.009	8	.009	.045	8	.027	.032
9	.000	.000	.000	9	.029	.002	9	.012	.048	9	.047	.032
10				10			10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938		
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-5.142	.285	1	-2.791	.424	1	167	.939
2	-.220	-.173	2	-.063	.168	2	.167	.293
3	-.170	-.135	3	.327	.125	3	.120	.293
4	-.019	-.063	4	.001	.078	4	.137	.137
5	-.078	-.105	5	.197	.065	5	.073	.073
6	-.043	-.106	6	.132	.085	6	.053	.053
7	-.016	-.028	7	.035	.051	7	.002	.002
8	.009	-.014	8	.014	.014	8	.041	.041
9			9	.062	.035	9	.055	.055
10			10			10		

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 189 ALPHA-MCL = 2.0 POP RUN.PI 2.09  
RUN 2 ALPHA-BAR = 2.0 O-CUMP = 32233  
POINT 4 SIGMA = 0. V-REF = 199.13  
COMPUTED FREQUENCY = 15.50, K = .1223

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

X=005  
SUCTION

N	CP-MAG	PHI
1	17.657	165.65
2	1.295	237.38
3	1.082	334.16
4	1.239	9.15
5	.317	267.30
6	.121	343.31
7	.067	232.69
8	.112	165.27
9	.136	181.54
10	.017	212.03

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	11.997	157.90	1	11.006	170.56	1	10.160	167.80	1	10.981	171.72	1	9.693	173.16	1	9.413	177.00
2	1.270	212.52	2	1.046	227.10	2	.048	185.54	2	1.729	243.73	2	.256	246.84	2	.358	216.32
3	.849	336.18	3	.176	346.48	3	.141	291.16	3	.415	339.95	3	.170	350.99	3	.054	264.77
4	.303	17.56	4	.093	304.25	4	.066	314.49	4	.273	306.98	4	.087	216.04	4	.054	264.77
5	.152	123.15	5	.165	358.57	5	.037	214.74	5	.193	209.40	5	.117	350.43	5	.150	244.58
6	.134	194.15	6	.085	65.44	6	.039	214.61	6	.110	275.37	6	.065	125.05	6	.051	223.08
7	.085	304.80	7	.124	313.35	7	.044	226.21	7	.032	278.61	7	.070	230.28	7	.051	306.51
8	.026	358.34	8	.119	302.32	8	.041	152.07	8	.010	226.70	8	.021	114.13	8	.015	328.58
9	.026	358.34	9	.119	302.32	9	.041	152.07	9	.010	226.70	9	.021	114.13	9	.015	328.58
10	.026	358.34	10	.119	302.32	10	.041	152.07	10	.010	226.70	10	.021	114.13	10	.015	328.58

X=030  
SUCTION

N	CP-MAG	PHI
1	.790	170.08
2	.352	72.44
3	.224	85.74
4	.080	248.04
5	.091	279.19
6	.046	180.76
7	.038	302.68
8	.036	339.33
9	.036	339.33
10	.036	339.33

# OCUT PERIODICITY TEST MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 189 ALPHA-MCL = 2.0 POP RUN-PT = 2.09  
 RUN 2 ALPHA-BAR = 3.2233  
 POINT 4 SIGMA = 0. V-REF = 199.13  
 COMPUTED FREQUENCY = 15.50, K = .1223

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	4.761 163.75	4.327 172.95	4.549 174.25	4.383 177.20	4.635 179.00	4.673 183.03
2	4.216 80.68	4.245 84.71	4.139 99.94	4.164 106.06	4.103 113.05	4.163 126.33
3	4.085 220.34	4.064 273.42	4.053 309.62	4.084 254.43	4.067 226.17	4.048 272.37
4	4.208 282.02	4.141 286.94	4.132 309.62	4.116 254.43	4.132 244.09	4.148 339.56
5	4.071 244.28	4.025 188.84	4.015 233.40	4.036 256.53	4.042 146.71	4.053 210.38
6	4.073 309.23	4.032 297.50	4.037 331.85	4.032 310.53	4.042 234.22	4.053 316.09
7	4.031 347.48	4.027 340.03	4.035 356.56	4.019 347.05	4.025 350.17	4.016 353.74
8	4.014 15.33	4.039 340.03	4.038 356.56	4.050 358.05	4.025 350.17	4.076 373.99
9	4.014 15.33	4.039 340.03	4.038 356.56	4.050 358.05	4.025 350.17	4.076 373.99
10	4.014 15.33	4.039 340.03	4.038 356.56	4.050 358.05	4.025 350.17	4.076 373.99
X=012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00
2	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00
3	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00
4	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00
5	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00
6	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00
7	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00
8	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00
9	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00
10	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00	0.000 .00

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

GAP FRACTION	W3 N CP-MAG PHI	W4 N CP-MAG PHI	W5 N CP-MAG PHI	W7 N CP-MAG PHI	W8 N CP-MAG PHI	W9 N CP-MAG PHI
1	5.150 176.85	5.576 195.07	2.423 188.60	1.007 174.17	949 174.17	949 174.17
2	5.217 213.39	5.644 217.64	1.178 218.20	1.178 218.20	949 218.20	949 218.20
3	5.036 231.49	5.075 270.56	1.650 256.04	1.178 218.20	949 218.20	949 218.20
4	5.102 223.36	5.180 333.44	1.477 333.62	1.664 337.56	949 337.56	949 337.56
5	5.115 248.02	5.085 166.54	1.052 141.93	1.664 337.56	949 337.56	949 337.56
6	5.056 335.61	5.053 146.53	1.031 146.53	1.664 337.56	949 337.56	949 337.56
7	5.016 302.11	5.020 142.52	1.020 142.52	1.664 337.56	949 337.56	949 337.56
8	5.016 302.11	5.020 142.52	1.020 142.52	1.664 337.56	949 337.56	949 337.56
9	5.016 302.11	5.020 142.52	1.020 142.52	1.664 337.56	949 337.56	949 337.56
10	5.016 302.11	5.020 142.52	1.020 142.52	1.664 337.56	949 337.56	949 337.56

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 191 ALPHA-MCL = 2.0 PDP RUN-PT 2.12  
 RUN 2 ALPHA-BAR = 2.0 O-COMP = .33345  
 POINT 6 SIGMA = 0. V-MEF = 202.59  
 COMPUTED FREQUENCY = 19.23, K = .1491

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

N	CPREAL	CPIMAG
1-16	.475	4.479
2	.499	.898
3	.670	.552
4	.352	.119
5	-.080	.114
6	.036	-.014
7	-.033	-.001
8	-.040	.034
9	-.057	.029
10	-.018	-.007

X=.012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1-10	.017	4.482	1-10	.822	1.994	1-10	.832	1.266	1-10	.778	.059
2	-.522	.331	2	.449	-.863	2	.084	-.255	2	.151	-.212
3	-.092	-.517	3	.359	-.357	3	.004	.018	3	.001	-.065
4	.301	-.162	4	.264	.245	4	.075	.044	4	.006	.048
5	.204	.090	5	.041	.209	5	.035	.014	5	.050	.062
6	.163	.077	6	.047	.013	6	.073	.063	6	.001	.022
7	-.163	.123	7	.017	.011	7	.049	.004	7	.013	.019
8	-.097	.019	8	.021	-.004	8	.019	.033	8	.001	.012
9	.057	-.013	9	.045	.011	9	.014	.037	9	.008	.033
10	.046	.030	10	.006	.049	10	.013	.007	10	.001	.026

X=.030  
 SUCTION

N	CPREAL	CPIMAG
1-4	.873	1.111
2	.177	.233
3	.106	.114
4	.037	.018
5	-.021	.012
6	-.057	.017
7	-.023	.002
8	-.016	.008
9	.005	.019
10	.009	.003

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 191 ALPHA-MCL = 2.0 POP RUN.PT 2.12  
 PUN 2 ALPHA-BAR = 2.0 O-CUMP = .3345  
 POINT 6 SIGMA = 0. V-REF = 202.59  
 COMPUTED FREQUENCY = 19.23, K = .1491

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.													
XZ:062													
SUCTION													
*** WALL PRESSURES, PER RADIAN ***													
WALL NO.													
GAP FRACTION													
W3													
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\*\*\* WALL PRESSURES, PER RADIAN \*\*\*



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 191 ALPHA-MCL = 2.0 PDP RUN.PT 2.12  
 RUN 2 ALPHA-BAR = 2.0 O-COMP = .3345  
 POINT 6 SIGMA = 0. V-REF = 202.59  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=.005  
 SUCTION

9

7

6

5

4

3

N	CP-MAG	PHI
1	17.073	164.79
2	1.027	240.93
3	.868	320.48
4	.372	18.70
5	.139	234.99
6	.039	338.30
7	.033	181.07
8	.053	139.55
9	.064	152.66
10	.019	201.53

X=.012 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	10.974	155.90	1	10.257	167.27	1	11.004	169.56	1	9.913	172.65	1	9.788	177.31				
2	.622	212.13	2	.125	286.30	2	.972	242.51	2	.269	251.77	2	.260	230.62				
3	.525	259.85	3	.101	168.06	3	.360	315.16	3	.019	101.87	3	.057	90.83				
4	.342	331.80	4	.064	167.68	4	.213	412.83	4	.087	149.77	4	.037	133.62				
5	.270	12.92	5	.028	70.51	5	.045	101.10	5	.038	138.05	5	.055	107.26				
6	.204	182.28	6	.039	130.52	6	.020	168.01	6	.049	174.55	6	.035	156.33				
7	.098	169.40	7	.035	159.42	7	.021	190.79	7	.039	59.93	7	.019	136.46				
8	.082	313.93	8	.035	161.56	8	.046	13.85	8	.039	68.97	8	.050	140.37				
9	.055	333.04	9	.016	103.53	9	.050	82.88	9	.015	210.73	9	.026	92.92				
10			10			10			10			10						

X=.030  
 SUCTION

N	CP-MAG	PHI
1	.998	167.16
2	.293	152.80
3	.156	132.73
4	.041	26.09
5	.024	150.78
6	.060	163.39
7	.023	175.41
8	.018	154.63
9	.020	175.15
10	.010	18.39

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 191 ALPHA-MCL = 2.0 POP RUN.PT 2.12  
 RUN 2 ALPHA-BAR = 2.0 G-COMP = 33355  
 POINT 6 ALPHA-SIGMA = 0.0 V-REF = 202.59  
 COMPUTED FREQUENCY = 19.23, K = .1491

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	4.842 160.12	4.426 169.23	4.723 170.83	4.603 172.87	4.953 176.19	5.058 181.42
2	.150 338.46	.188 350.66	.068 335.76	.080 382.89	.032 350.40	.076 395.59
3	.048 222.66	.061 227.65	.077 189.53	.066 180.33	.041 181.88	.033 187.32
4	.101 43.53	.123 127.65	.078 81.76	.024 65.35	.019 123.19	.030 146.55
5	.041 17.32	.023 155.46	.019 81.76	.024 65.35	.019 123.19	.030 146.55
6	.057 119.16	.047 182.19	.058 125.12	.051 121.87	.072 138.70	.045 148.05
7	.033 168.79	.021 179.58	.021 150.72	.018 141.81	.024 150.55	.020 148.05
8	.033 152.79	.018 159.05	.017 57.47	.015 37.54	.024 61.40	.016 36.76
9	.092 77.41	.014 355.82	.019 35.65	.012 82.70	.030 298.08	.018 78.50
10	.042 77.41	.012 355.82	.007 35.65	.018 82.70	.003 298.08	.014 78.50
X=.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	.000 .00	6.875 345.25	7.926 347.60	6.469 343.48	6.558 351.26	6.558 351.26
2	.000 .00	5.336 241.10	.581 257.06	.350 259.64	.315 261.11	.315 261.11
3	.000 .00	.073 57.47	.113 71.76	.078 71.76	.171 179.58	.171 179.58
4	.000 .00	.031 267.99	.046 281.22	.051 281.22	.051 281.22	.051 281.22
5	.000 .00	.034 265.37	.032 184.22	.023 184.22	.023 184.22	.023 184.22
6	.000 .00	.010 183.36	.011 184.22	.031 184.22	.031 184.22	.031 184.22
7	.000 .00	.020 335.29	.018 269.60	.017 179.60	.017 179.60	.017 179.60
8	.000 .00	.023 335.29	.012 269.60	.012 269.60	.012 269.60	.012 269.60
9	.000 .00					
10	.000 .00					

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	3	4	5	6	7	9
X=.062	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	5.369 172.20	5.819 175.97	3.096 179.18	3.892 202.96	3.637 209.30	3.603 209.30
2	.054 221.20	.165 337.61	.084 190.54	.077 216.37	.094 226.54	.093 226.54
3	.155 89.23	.146 77.61	.103 81.85	.092 98.25	.109 109.34	.109 109.34
4	.023 7.94	.013 85.08	.138 226.80	.013 124.71	.064 124.71	.064 124.71
5	.091 140.09	.090 120.19	.080 131.54	.062 125.02	.051 125.02	.051 125.02
6	.025 155.11	.033 126.52	.024 131.54	.017 152.02	.022 154.40	.022 154.40
7	.018 155.11	.021 123.13	.017 124.42	.017 124.42	.017 124.42	.017 124.42
8	.041 94.37	.023 77.90	.016 46.51	.016 46.51	.016 46.51	.016 46.51
9	.034 94.37					
10						
X=.012	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	5.369 172.20	5.819 175.97	3.096 179.18	3.892 202.96	3.637 209.30	3.603 209.30
2	.054 221.20	.165 337.61	.084 190.54	.077 216.37	.094 226.54	.093 226.54
3	.155 89.23	.146 77.61	.103 81.85	.092 98.25	.109 109.34	.109 109.34
4	.023 7.94	.013 85.08	.138 226.80	.013 124.71	.064 124.71	.064 124.71
5	.091 140.09	.090 120.19	.080 131.54	.062 125.02	.051 125.02	.051 125.02
6	.025 155.11	.033 126.52	.024 131.54	.017 152.02	.022 154.40	.022 154.40
7	.018 155.11	.021 123.13	.017 124.42	.017 124.42	.017 124.42	.017 124.42
8	.041 94.37	.023 77.90	.016 46.51	.016 46.51	.016 46.51	.016 46.51
9	.034 94.37					
10						

PRESSURE, PH

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 2 ALPHA-MCL = 2.0 POP RUN.PT 3.06  
 RUN 3 ALPHA-BAR = 2.0 O-COMP = .32662  
 POINT 2 SIGMA = 45. V-REF = 200.50  
 COMPUTED FREQUENCY = 9.22, K = .0723

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE:005  
 SUCTION

N	CPREAL	CPIMAG
1	10.267	20.426
2	-.316	.611
3	.561	-.224
4	.933	.471
5	.333	.403
6	.139	-.489
7	.120	-.276
8	-.113	.006
9	-.179	.035
10		

XE:012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	5.606	14.430	1	-8.534	15.815	1	-14.232	5.054	1	-5.131	14.532
2	1.773	2.156	2	-2.605	12.025	2	-.162	-.616	2	1.122	-.770
3	-.482	-.350	3	-.990	-.191	3	-.253	-.240	3	-.030	-.132
4	-.640	-.097	4	-.327	-.138	4	.015	-.115	4	-.017	-.079
5	-.600	.271	5	.067	.129	5	-.007	-.099	5	-.067	-.041
6	-.607	.210	6	.047	.076	6	.024	-.010	6	-.014	-.010
7	-.047	-.275	7	-.091	-.154	7	-.022	-.083	7	-.041	-.033
8	-.055	-.262	8	-.061	-.002	8	.007	.030	8	-.074	.058
9			9	-.145	.048	9	-.022	.005	9	.068	.023
10			10			10			10	.016	.016

XE:030  
 SUCTION

N	CPREAL	CPIMAG
1	-2.655	6.281
2	.350	-.151
3	.166	-.108
4	-.177	-.097
5	-.062	-.067
6	.022	-.104
7	-.058	.038
8	-.018	-.081
9	.003	.002
10		.051

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 2 ALPHA-MCL = 3.0 PDP RUN PT 3.06  
 RUN 3 ALPHA-BAR = 3.0 O-COMP = 12.62  
 POINT 2 SIGMA = 45. V-REF = 200.50  
 COMPUTED FREQUENCY = 9.22, K = .0723

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3											
X=.062											
SUCTION											
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	2.640	.967	1	-2.149	5.676	1	-6.087	2.576	1	-6.171	-2.222
2	.299	-.111	2	.375	-.050	2	.278	.075	2	.197	-.097
3	-.011	-.215	3	.084	-.157	3	-.011	-.061	3	.061	-.061
4	-.012	-.151	4	-.150	-.101	4	-.182	-.230	4	-.117	-.105
5	-.034	-.040	5	-.032	-.044	5	-.029	.075	5	-.028	.064
6	-.001	-.001	6	-.051	-.008	6	-.037	-.014	6	-.022	-.022
7	-.021	-.065	7	-.004	-.004	7	-.037	-.094	7	.035	-.041
8	-.013	-.019	8	.010	-.001	8	.017	.033	8	.022	-.001
9	-.017	.024	9	-.019	.043	9	-.023	.023	9	.026	-.024
10	-.017	.024	10	-.019	.043	10	-.023	.023	10	.026	-.024
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	.000	.000	1	9.768	-1.364	1	9.571	7.012	1	2.595	13.188
2	.000	.000	2	.000	.000	2	.000	.000	2	.000	.000
3	.000	.000	3	.000	.000	3	.000	.000	3	.000	.000
4	.000	.000	4	.000	.000	4	.000	.000	4	.000	.000
5	.000	.000	5	.000	.000	5	.000	.000	5	.000	.000
6	.000	.000	6	.000	.000	6	.000	.000	6	.000	.000
7	.000	.000	7	.000	.000	7	.000	.000	7	.000	.000
8	.000	.000	8	.000	.000	8	.000	.000	8	.000	.000
9	.000	.000	9	.000	.000	9	.000	.000	9	.000	.000
10	.000	.000	10	.000	.000	10	.000	.000	10	.000	.000

BLADE NO. 7											
X=.062											
PRESSURE											
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	2.640	.967	1	-2.149	5.676	1	-6.087	2.576	1	-6.171	-2.222
2	.299	-.111	2	.375	-.050	2	.278	.075	2	.197	-.097
3	-.011	-.215	3	.084	-.157	3	-.011	-.061	3	.061	-.061
4	-.012	-.151	4	-.150	-.101	4	-.182	-.230	4	-.117	-.105
5	-.034	-.040	5	-.032	-.044	5	-.029	.075	5	-.028	.064
6	-.001	-.001	6	-.051	-.008	6	-.037	-.014	6	-.022	-.022
7	-.021	-.065	7	-.004	-.004	7	-.037	-.094	7	.035	-.041
8	-.013	-.019	8	.010	-.001	8	.017	.033	8	.022	-.001
9	-.017	.024	9	-.019	.043	9	-.023	.023	9	.026	-.024
10	-.017	.024	10	-.019	.043	10	-.023	.023	10	.026	-.024
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	.000	.000	1	9.768	-1.364	1	9.571	7.012	1	2.595	13.188
2	.000	.000	2	.000	.000	2	.000	.000	2	.000	.000
3	.000	.000	3	.000	.000	3	.000	.000	3	.000	.000
4	.000	.000	4	.000	.000	4	.000	.000	4	.000	.000
5	.000	.000	5	.000	.000	5	.000	.000	5	.000	.000
6	.000	.000	6	.000	.000	6	.000	.000	6	.000	.000
7	.000	.000	7	.000	.000	7	.000	.000	7	.000	.000
8	.000	.000	8	.000	.000	8	.000	.000	8	.000	.000
9	.000	.000	9	.000	.000	9	.000	.000	9	.000	.000
10	.000	.000	10	.000	.000	10	.000	.000	10	.000	.000

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. 3											
GAP FRACTION .062											
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-7.914	-3.436	1	-8.263	-2.344	1	-4.546	-.710	1	-1.780	1.169
2	-1.824	-.042	2	-1.236	-.191	2	-.516	-.287	2	.291	-.123
3	-.037	-.083	3	-.178	-.211	3	.104	-.204	3	.093	-.120
4	-.172	-.157	4	-.088	-.206	4	-.222	-.094	4	-.120	-.130
5	-.139	-.108	5	-.094	-.117	5	-.064	-.089	5	-.027	-.077
6	-.130	-.017	6	-.094	-.117	6	-.059	-.078	6	-.027	-.077
7	-.094	-.113	7	.049	-.111	7	-.035	.010	7	.036	-.025
8	.020	.020	8	.061	.030	8	.037	.014	8	.009	-.009
9	.020	.020	9	.061	.030	9	.037	.014	9	.009	-.009
10	.020	.020	10	.061	.030	10	.037	.014	10	.009	-.009

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 2 ALPHA-MCL = 2.0 POP RUN.PT 3.06  
RUN 3 ALPHA-BAR = 2.0 Q-COMP = 32662  
POINT 2 ALPHA-SIGMA = .5 V-REF = 200.50  
COMPUTED FREQUENCY = 9.22, K = .0723

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

X=0.05  
SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	22.863	206.68	1	22.863	206.68	1	22.863	206.68	1	22.863	206.68	1	22.863	206.68
2	.688	291.36	2	.688	291.36	2	.688	291.36	2	.688	291.36	2	.688	291.36
3	.604	248.25	3	.604	248.25	3	.604	248.25	3	.604	248.25	3	.604	248.25
4	1.052	137.38	4	1.052	137.38	4	1.052	137.38	4	1.052	137.38	4	1.052	137.38
5	.639	194.69	5	.639	194.69	5	.639	194.69	5	.639	194.69	5	.639	194.69
6	.405	195.83	6	.405	195.83	6	.405	195.83	6	.405	195.83	6	.405	195.83
7	.502	293.56	7	.502	293.56	7	.502	293.56	7	.502	293.56	7	.502	293.56
8	.301	266.74	8	.301	266.74	8	.301	266.74	8	.301	266.74	8	.301	266.74
9	.113	348.96	9	.113	348.96	9	.113	348.96	9	.113	348.96	9	.113	348.96
10			10			10			10			10		

X=0.12  
SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	15.481	203.77	1	15.481	203.77	1	15.481	203.77	1	15.481	203.77	1	15.481	203.77
2	2.792	320.57	2	2.792	320.57	2	2.792	320.57	2	2.792	320.57	2	2.792	320.57
3	.595	90.97	3	.595	90.97	3	.595	90.97	3	.595	90.97	3	.595	90.97
4	.454	112.33	4	.454	112.33	4	.454	112.33	4	.454	112.33	4	.454	112.33
5	.652	242.20	5	.652	242.20	5	.652	242.20	5	.652	242.20	5	.652	242.20
6	.056	248.15	6	.056	248.15	6	.056	248.15	6	.056	248.15	6	.056	248.15
7	.279	279.74	7	.279	279.74	7	.279	279.74	7	.279	279.74	7	.279	279.74
8	.267	33.03	8	.267	33.03	8	.267	33.03	8	.267	33.03	8	.267	33.03
9	.185	122.73	9	.185	122.73	9	.185	122.73	9	.185	122.73	9	.185	122.73
10			10			10			10			10		

X=0.10  
SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	6.821	202.91	1	6.821	202.91	1	6.821	202.91	1	6.821	202.91	1	6.821	202.91
2	.570	164.60	2	.570	164.60	2	.570	164.60	2	.570	164.60	2	.570	164.60
3	.222	228.37	3	.222	228.37	3	.222	228.37	3	.222	228.37	3	.222	228.37
4	.091	317.33	4	.091	317.33	4	.091	317.33	4	.091	317.33	4	.091	317.33
5	.106	102.05	5	.106	102.05	5	.106	102.05	5	.106	102.05	5	.106	102.05
6	.070	156.78	6	.070	156.78	6	.070	156.78	6	.070	156.78	6	.070	156.78
7	.083	255.69	7	.083	255.69	7	.083	255.69	7	.083	255.69	7	.083	255.69
8	.018	266.23	8	.018	266.23	8	.018	266.23	8	.018	266.23	8	.018	266.23
9			9			9			9			9		
10			10			10			10			10		

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 2 ALPHA-MCL = 2.0 PDP RUN-PT 3.06  
 RUN 3 ALPHA-BAR = 2.0 Q-COMP = 32692  
 POINT 2 SIGMA = 45. V-REF = 200.50  
 COMPUTED FREQUENCY = 9.22, K = .0723

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	X=.062 SUCTION	5										7										9									
		N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	5.625	1	197.01	0.01	1	6.609	202.56	1	2.336	202.56	1	6.559	199.80	1	7.224	199.30	1	7.224	199.30	1	7.224	199.30	1	6.808	193.37	1	6.808	193.37	1	6.808	193.37
2	.282	2	246.81	0.17	2	.378	172.56	2	.062	105.57	2	.159	333.93	2	.519	272.72	2	.519	272.72	2	.519	272.72	2	.219	119.74	2	.219	119.74	2	.219	119.74
3	.207	3	312.17	0.23	3	.178	208.04	3	.062	34.57	3	.159	221.03	3	.164	155.04	3	.164	155.04	3	.164	155.04	3	.176	159.99	3	.176	159.99	3	.176	159.99
4	.084	4	21.02	0.10	4	.293	213.86	4	.026	26.70	4	.064	96.79	4	.067	259.47	4	.067	259.47	4	.067	259.47	4	.069	161.71	4	.069	161.71	4	.069	161.71
5	.037	5	134.10	0.10	5	.097	108.99	5	.037	201.42	5	.058	276.51	5	.037	210.75	5	.037	210.75	5	.037	210.75	5	.060	231.62	5	.060	231.62	5	.060	231.62
6	.037	6	134.10	0.10	6	.097	108.99	6	.037	201.42	6	.058	276.51	6	.037	210.75	6	.037	210.75	6	.037	210.75	6	.060	231.62	6	.060	231.62	6	.060	231.62
7	.037	7	134.10	0.10	7	.097	108.99	7	.037	201.42	7	.058	276.51	7	.037	210.75	7	.037	210.75	7	.037	210.75	7	.060	231.62	7	.060	231.62	7	.060	231.62
8	.037	8	134.10	0.10	8	.097	108.99	8	.037	201.42	8	.058	276.51	8	.037	210.75	8	.037	210.75	8	.037	210.75	8	.060	231.62	8	.060	231.62	8	.060	231.62
9	.037	9	134.10	0.10	9	.097	108.99	9	.037	201.42	9	.058	276.51	9	.037	210.75	9	.037	210.75	9	.037	210.75	9	.060	231.62	9	.060	231.62	9	.060	231.62
10	.037	10	134.10	0.10	10	.097	108.99	10	.037	201.42	10	.058	276.51	10	.037	210.75	10	.037	210.75	10	.037	210.75	10	.060	231.62	10	.060	231.62	10	.060	231.62

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	X=.062	W3										W4										W5									
		N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	8.628	1	203.47	0.17	1	8.589	195.84	1	4.601	188.83	1	3.023	154.65	1	2.127	146.81	1	2.127	146.81	1	2.127	146.81	1	2.127	146.81	1	2.127	146.81	1	2.127	146.81
2	.043	2	243.17	0.17	2	.309	195.84	2	.229	188.83	2	.313	154.65	2	.313	146.81	2	.313	146.81	2	.313	146.81	2	.313	146.81	2	.313	146.81	2	.313	146.81
3	.043	3	243.17	0.17	3	.309	195.84	3	.229	188.83	3	.313	154.65	3	.313	146.81	3	.313	146.81	3	.313	146.81	3	.313	146.81	3	.313	146.81	3	.313	146.81
4	.043	4	243.17	0.17	4	.309	195.84	4	.229	188.83	4	.313	154.65	4	.313	146.81	4	.313	146.81	4	.313	146.81	4	.313	146.81	4	.313	146.81	4	.313	146.81
5	.043	5	243.17	0.17	5	.309	195.84	5	.229	188.83	5	.313	154.65	5	.313	146.81	5	.313	146.81	5	.313	146.81	5	.313	146.81	5	.313	146.81	5	.313	146.81
6	.043	6	243.17	0.17	6	.309	195.84	6	.229	188.83	6	.313	154.65	6	.313	146.81	6	.313	146.81	6	.313	146.81	6	.313	146.81	6	.313	146.81	6	.313	146.81
7	.043	7	243.17	0.17	7	.309	195.84	7	.229	188.83	7	.313	154.65	7	.313	146.81	7	.313	146.81	7	.313	146.81	7	.313	146.81	7	.313	146.81	7	.313	146.81
8	.043	8	243.17	0.17	8	.309	195.84	8	.229	188.83	8	.313	154.65	8	.313	146.81	8	.313	146.81	8	.313	146.81	8	.313	146.81	8	.313	146.81	8	.313	146.81
9	.043	9	243.17	0.17	9	.309	195.84	9	.229	188.83	9	.313	154.65	9	.313	146.81	9	.313	146.81	9	.313	146.81	9	.313	146.81	9	.313	146.81	9	.313	146.81
10	.043	10	243.17	0.17	10	.309	195.84	10	.229	188.83	10	.313	154.65	10	.313	146.81	10	.313	146.81	10	.313	146.81	10	.313	146.81	10	.313	146.81	10	.313	146.81

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 4 ALPHA-MCL = 2.0 POP RUN.PT 3.08  
RUN 3 ALPHA-BAR = 2.0 O-COMP = 32676  
POINT 4 SIGMA = 45. V-REF = 200.53  
COMPUTED FREQUENCY = 15.54, K = .1217

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XZ=005  
SUCTION

9

7

6

5

N	CPREAL	CPIMAG
1	-8.599	21.165
2	-.635	-.588
3	.438	-.251
4	1.296	-.272
5	.608	.284
6	-.242	-.158
7	.005	-.596
8	-.087	-.201
9	-.009	.125
10	-.249	.009

XZ=012  
SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	6.259	14.643	1	-7.591	16.934	1	-13.830	6.048	1	-5.965	-13.986
2	1.722	2.009	2	-2.683	2.306	2	-.496	-.638	2	-.733	-.496
3	-.485	.284	3	-1.181	-.044	3	.249	-.164	3	-.100	-.030
4	-.617	.005	4	-.076	-.048	4	.128	-.021	4	.062	-.038
5	-.270	.331	5	.203	.035	5	.013	-.153	5	.007	-.028
6	-.105	.106	6	.075	.249	6	-.019	.116	6	-.051	-.021
7	-.083	-.106	7	.091	.033	7	.088	-.041	7	.079	-.046
8	-.102	-.275	8	-.001	-.049	8	.007	-.041	8	.035	-.050
9	-.090	-.065	9	-.021	-.020	9	-.008	-.007	9	.024	-.001
10			10	-.187	-.020	10	-.010	-.003	10	.008	.010

XZ=030  
SUCTION

N	CPREAL	CPIMAG
1	-2.155	6.420
2	.284	-.207
3	.129	-.114
4	.023	-.006
5	-.030	-.075
6	-.034	.056
7	-.031	.007
8	-.007	.026
9	-.031	-.001
10	-.009	-.034

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FILE 4 ALPHA-MCL = 2.0 FOP RUN:PT 3.08
RUN 3 ALPHA-SAR = 2.0 Q-COMP = 326.6
POINT 4 SIGNAL = 4.0 Y-REF = 200.53
L & IMAGINARY COMPUTED FREQUENCY = 15.54, K = .1217
RADIAN ***

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FOURIER COEFFICIENTS, \*\*\* BLADE PRESSURES, I

**BLADE NO.**

SUC-1062

	4			5			6			7			9		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	2	.863	5.102	1	-1.793	5.970	1	-5.788	3.028	1	-1.710	-6.231	1	5.798	-3.720
2	3	-.040	-.093	2	.098	-.052	2	.013	.078	2	-.026	-.039	2	-.060	-.081
3	4	-.006	-.094	3	.059	-.091	3	.032	.075	3	-.019	-.034	3	-.031	-.083
4	5	-.026	-.074	4	.077	-.002	4	-.037	.099	4	-.059	-.002	4	-.008	-.066
5	6	.065	.018	5	.016	-.027	5	.003	.061	5	-.070	.006	5	-.008	-.038
6	7	.047	.019	6	.016	.019	6	.028	.079	6	-.059	.077	6	.010	.067
7	8	.057	.044	7	.059	-.014	7	.027	.045	7	-.045	.036	7	.020	.067
8	9	.026	.022	8	.019	.024	8	.027	.045	8	-.012	.025	8	.028	.059
9	10	-.043	.031	9	.016	.001	9	.026	.096	9	-.015	.027	9	.027	-.043
10		-.005	-.023	10	-.032	-.021	10	-.002	-.002	10	-.013	.007	10	-.006	-.045
N	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	.000	.000	1	-1.879	6.171	1	9.424	-1.879	1	6.171	12.533	1	-1.540	6.053
2	2	.000	.000	2	.682	-.918	2	-.482	-.665	2	-.521	12.533	2	-.521	6.066
3	3	.000	.000	3	.059	-.030	3	.059	-.020	3	-.120	.789	3	-.999	-.277
4	4	.000	.000	4	.025	-.030	4	.025	.045	4	-.052	.075	4	-.999	-.177
5	5	.000	.000	5	.017	-.029	5	.017	.020	5	-.015	.001	5	-.999	.006
6	6	.000	.000	6	.012	-.028	6	.012	.020	6	-.011	.001	6	.998	-.000
7	7	.000	.000	7	.026	-.033	7	.026	.033	7	-.016	.001	7	.998	-.000
8	8	.000	.000	8	.018	-.018	8	.018	.018	8	-.016	.001	8	.998	-.000
9	9	.000	.000	9	.027	-.012	9	.027	.027	9	-.012	.001	9	.998	-.000
10	10	.000	.000	10	.018	-.018	10	.018	.018	10	-.012	.001	10	.998	-.000

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.  
GAP FRACTION

	W3 0.062		W4 0.125		W5 0.250		W7 0.750		W8 0.875		W9 0.938			
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-0.081	-2.565	-0.329	-1.667	-0.451	1.234	1.667	1.109	-1.522	1.269	-1.415	1.491		
2	-0.127	-1.804	-1.395	-1.395	0.017	-0.354	-1.190	-0.030	-1.332	-0.052	-1.263	1.062		
3	-0.077	-1.634	-0.292	-0.59	0.081	-0.247	-0.190	-0.062	-1.112	-0.065	-1.096	-0.002		
4	-0.122	-1.035	-0.018	-0.062	0.037	-0.047	-0.027	-0.045	-0.026	-0.025	-0.004	-0.070		
5	-0.022	-0.008	-0.049	-0.062	-0.023	-0.023	-0.022	-0.062	-0.003	-0.019	-0.003	-0.032		
6	-0.030	-0.034	-0.069	-0.016	0.066	-0.050	-0.017	-0.042	0.083	-0.058	-0.078	-0.051		
7	-0.044	-0.044	-0.034	-0.016	0.025	-0.011	0.011	-0.024	-0.062	-0.020	0.019	-0.050		
8	-0.042	-0.049	-0.035	-0.025	0.015	-0.010	0.021	-0.009	-0.013	-0.021	-0.010	-0.016		
9	-0.015	-0.051	-0.035	-0.025	-0.025	-0.010	-0.009	-0.009	-0.013	-0.021	-0.016	-0.010		
10	-0.042	-0.051	-0.035	-0.025	-0.025	-0.010	-0.009	-0.009	-0.013	-0.021	-0.016	-0.010		



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 4 ALPHA-MCL = 2.0 POP RUN.PT 3.08  
 PUM 3 ALPHA-BAR = 2.0 O-CUMPS = .2676  
 POINT 4 SIGMA = .45 V-RATE = 200.53  
 COMPUTED FREQUENCY = 15.54, K = .1217

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

N	CP-MAG	PHI
1	22.845	202.11
2	.714	304.54
3	.504	240.20
4	1.324	115.85
5	.671	115.00
6	.289	33.23
7	.596	180.51
8	.219	293.31
9	.126	183.98
10	.249	357.97

X=012 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	15.924	201.86	1	18.557	204.14	1	15.095	201.33	1	19.195	202.12
	2	2.646	319.40	2	3.537	319.32	2	.808	322.13	2	3.570	317.64
	3	.562	175.33	3	1.182	67.88	3	.298	101.56	3	1.245	377.89
	4	.497	359.35	4	.090	212.42	4	.143	153.89	4	.269	5.42
	5	.427	107.26	5	.206	99.66	5	.025	167.72	5	.550	131.52
	6	.129	319.13	6	.267	286.28	6	.158	262.27	6	.320	317.58
	7	.197	286.31	7	.041	267.92	7	.041	80.52	7	.156	284.57
	8	.294	24.72	8	.053	202.93	8	.011	6.53	8	.228	43.34
	9	.111	175.66	9	.185	6.34	9	.044	347.01	9	.089	153.35
	10			10			10			10		

X=030  
SUCTION

N	CP-MAG	PHI
1	6.772	198.56
2	.352	143.85
3	.172	228.54
4	.022	344.74
5	.091	326.17
6	.035	349.42
7	.032	282.80
8	.027	104.42
9	.031	74.15
10	.036	74.92

# MODE 2 --- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 4 ALPHA-MCL = 2.0 POP RUN-PT 3.08  
 RUN 3 ALPHA-BAR = 2.0 O-COMP = 32676  
 POINT 4 SIGMA = 45. V-REF = 200.53  
 COMPUTED FREQUENCY = 15.54, K = .1217  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	5	6	7	9
X=.062 SUCTION	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI
1	5.850 195.70	1 6.234 196.72	1 6.532 197.18	1 7.079 196.68	1 6.887 192.31
2	.101 157.01	.111 151.85	.079 170.00	.106 170.00	.080 168.73
3	.074 118.91	.077 122.87	.091 170.48	.021 170.48	.029 170.48
4	.068 109.21	.077 138.39	.103 169.40	.054 178.20	.029 150.74
5	.050 109.68	.032 29.83	.061 138.19	.009 204.91	.021 127.46
6	.094 109.23	.025 29.00	.084 119.57	.085 204.91	.070 127.46
7	.034 40.46	.061 253.03	.103 259.74	.076 16.02	.077 127.46
8	.043 315.93	.031 92.52	.027 32.75	.028 325.10	.029 170.77
9	.024 167.91	.039 33.23	.003 315.99	.011 320.53	.046 167.96
10					
X=.012 PRESSURE	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI
1	.000 .00	9.621 33.72	1 11.796 31.54	1 1.073 28.80	1 16.557 23.52
2	.000 .00	.621 324.05	1 1.056 31.39	1 1.370 350.76	1 2.442 306.85
3	.000 .00	.047 106.75	1 1.264 330.39	1 1.693 352.72	1 2.701 306.85
4	.000 .00	.059 179.39	1 1.339 239.81	1 1.791 184.72	1 1.014 169.93
5	.000 .00	.052 285.96	1 1.060 119.66	1 1.247 152.51	1 1.693 222.97
6	.000 .00	.074 188.45	1 1.032 152.26	1 1.055 155.51	1 1.448 192.00
7	.000 .00	.029 192.67	1 1.014 154.23	1 1.021 129.81	1 1.335 170.11
8	.000 .00	.042 51.70	1 1.026 203.50	1 1.176 163.81	1 1.087 204.15
9	.000 .00	.018 296.62	1 1.017 225.56	1 1.116 130.43	1 1.115 115.58
10	.000 .00	.032 145.66	1 1.017 225.56	1 1.116 130.43	1 1.115 115.58

## \*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO: GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938
N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI
1	8.478 197.61	8.595 191.43	4.465 184.55	2.149 148.98	1.982 140.20	1.950 136.52
2	1.184 324.49	1.635 301.43	.254 273.75	.192 188.90	1.238 152.69	1.277 136.52
3	.196 69.97	.419 44.54	.093 330.04	.093 332.90	.112 324.90	.106 324.90
4	.128 180.34	.067 298.11	.049 312.96	.135 332.90	.102 324.90	.102 324.90
5	.089 161.55	.078 179.38	.021 109.23	.107 184.09	.021 112.51	.032 121.32
6	.063 294.27	.084 127.45	.058 115.88	.049 191.07	.101 112.51	.053 126.62
7	.034 96.40	.035 149.47	.050 87.75	.374 65.54	.102 112.51	.053 126.62
8	.064 310.78	.046 173.94	.027 322.78	.033 317.54	.029 318.98	.018 308.24
9	.053 105.95	.043 143.55	.027 156.02	.023 317.54	.024 318.98	.018 308.24
10						

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

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FILE      6  ALPHA-MCL = 2.0  POP RUN.PT  3.10
RUN       3  ALPHA-B4R = 2.0  Q-COMP = 32348
POINT    6  SIGMA = 45.  V-XEF = 199.51
          COMPUTED FREQUENCY = 19.21,  K = .1513

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

Q

NO. 135  
SECTION 500

N	1	2	3	4	5	6	7	8	9	0
CPPEAL	-7.941	-4.410	1.253	1.160	1.579	-2.633	-2.000	1.072	0.058	-1.132
CPIMAG	21.651	-3.582	-2.755	-0.048	-2.244	-0.063	-4.419	-2.441	1.144	2.200

**SUCTION**  
**x=.012**

[illegible]

**SUCIION**  
**X=035**

N	CPREAL	CPIMAG
1	-2.098	6.630
2	.281	-.233
3	.011	-.294
4	-.721	.019
5	.109	-.039
6	-.087	.023
7	-.034	.028
8	.016	.013
9	.017	-.021
0	.033	-.006
1	.005	.000

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 9 ALPHA-MCL = 2.0 PDP RUN-PT 3.10  
 RUN 3 ALPHA-BAR = 2.0 Q-COMP = .32348  
 POINT 6 SIGMA = .45 V-REF = 199.51  
 COMPUTED FREQUENCY = 19.21, K = .1513

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	1	2	3	4	5	6	7	8	9
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	2	.910	5.067	1	-1.744	6.041	1	-3.538	-6.350
2	3	.003	-.063	2	.118	-.053	2	-.099	-.075
3	4	-.103	-.104	3	-.079	-.063	3	-.107	-.056
4	5	.027	-.021	4	-.030	-.023	4	.004	-.025
5	6	.017	-.033	5	-.029	-.020	5	.007	-.061
6	7	-.017	-.064	6	.039	-.042	6	-.003	-.005
7	8	.119	-.004	7	.022	-.013	7	-.029	-.010
8	9	.051	-.216	8	.021	-.004	8	-.047	-.009
9	10	-.278	-.066	9	-.022	.032	9	.016	-.023
10				10			10	.031	-.020
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	2	-.806	-.9.159	1	9.518	-2.420	1	3.990	12.219
2	3	.397	-.686	2	-.517	-.587	2	.817	2.565
3	4	.007	-.006	3	.043	-.024	3	1.448	.641
4	5	.034	-.052	4	.022	-.051	4	.667	.088
5	6	-.091	.016	5	-.019	-.058	5	.261	.123
6	7	-.116	.042	6	.003	-.026	6	.071	.194
7	8	-.045	-.029	7	-.003	.012	7	.004	.154
8	9	.166	.109	8	.045	-.008	8	.062	.075
9	10	.227	-.040	9	.022	.025	9	.002	-.004
10				10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	1	2	3	4	5	6	7	8	9
X=.062	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	2	-.8.167	-.2.424	1	-.8.404	-1.364	1	-1.484	1.062
2	3	1.022	-.770	2	.807	-1.309	2	-.184	-.013
3	4	-.025	.236	3	-.165	.294	3	-.021	-.008
4	5	.047	.131	4	-.066	.047	4	.016	-.016
5	6	-.037	-.041	5	.052	-.013	5	.003	-.015
6	7	.114	-.019	6	-.001	-.002	6	.036	-.015
7	8	-.048	.019	7	-.018	.003	7	.007	-.007
8	9	.047	-.010	8	-.059	.030	8	.007	-.010
9	10	.006	.053	9	.029	.039	9	.055	-.006
10		.118	-.117	10	.076	-.086	10	.043	-.016
X=.012	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	2	-.8.167	-.2.424	1	-.8.404	-1.364	1	-1.484	1.062
2	3	1.022	-.770	2	.807	-1.309	2	-.184	-.013
3	4	-.025	.236	3	-.165	.294	3	.021	-.008
4	5	.047	.131	4	-.066	.047	4	.016	-.016
5	6	-.037	-.041	5	.052	-.013	5	.003	-.015
6	7	.114	-.019	6	-.001	-.002	6	.036	-.015
7	8	-.048	.019	7	-.018	.003	7	.007	-.010
8	9	.047	-.010	8	-.059	.030	8	.007	-.010
9	10	.006	.053	9	.029	.039	9	.055	-.006
10		.118	-.117	10	.076	-.086	10	.043	-.016

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 6 ALPHA-MCL = 2.0 PDP RUN-PT 3.10  
 RUN 3 ALPHA-BAR = 2.0 Q-COMP = .32348  
 POINT 6 COMPTED SIGMA = 45.19.21, V-REF = .1513

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

XE=005  
 SUCTION

N	CP-MAG	PHI
1	23.062	200.14
2	.712	305.19
3	.374	222.58
4	1.161	357.62
5	.628	112.81
6	.270	113.55
7	.464	154.23
8	.252	286.69
9	.128	152.92
10	.234	301.36

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	15.366	200.76	1	18.926	202.40	1	14.473	200.18	1	19.270	200.39	1	15.338	200.27
2	.458	315.50	2	.514	315.47	2	.703	320.97	2	3.483	315.30	2	.863	300.60
3	.305	313.50	3	1.244	210.17	3	.167	53.34	3	1.283	74.33	3	.228	55.24
4	.593	28.28	4	.098	212.37	4	.043	196.57	4	.179	24.88	4	.062	213.44
5	.424	220.15	5	.179	256.68	5	.029	5.94	5	.511	113.98	5	.096	49.71
6	.043	229.13	6	.205	236.68	6	.047	309.94	6	.384	282.41	6	.030	180.87
7	.007	335.19	7	.224	277.62	7	.013	217.13	7	.120	321.92	7	.107	142.15
8	.524	80.59	8	.109	98.86	8	.015	310.38	8	.255	318.98	8	.013	340.82
9	.451	80.59	9	.246	270.85	9	.060	172.38	9	.077	310.11	9	.013	308.82
10			10			10	.067	315.69	10			10	.117	308.82

XE=020  
 SUCTION

N	CP-MAG	PHI
1	6.955	197.56
2	.365	140.37
3	.095	146.71
4	.028	128.12
5	.116	289.48
6	.046	344.37
7	.021	307.20
8	.033	39.13
9	.007	88.29
10		235.51

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 6 ALPHA-MCL = 2.0 PDP RUN-PI 3.10  
 RUN 3 ALPHA-BR = 2.0 O-COMP = 323.0  
 POINT 6 SIGMA = 4.5 V-REF = 199.51  
 COMPUTED FREQUENCY = 19.21, K = .1513

FOURIER COEFFICIENTS: AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
X=.062 SUCTION	1	5.843	125.13	1	6.288	196.10	1	6.666	197.00	1	6.577	195.21	1	7.269	195.88	1	6.849	190.45
	2	.063	182.84	2	.129	155.90	2	.119	149.20	2	.111	149.06	2	.101	156.74	2	.066	126.93
	3	.210	254.60	3	.101	120.32	3	.148	187.40	3	.113	120.95	3	.115	167.05	3	.033	126.93
	4	.025	239.65	4	.037	37.80	4	.067	102.61	4	.048	314.22	4	.062	261.16	4	.015	126.93
	5	.047	332.84	5	.035	304.61	5	.029	258.17	5	.034	314.22	5	.068	209.89	5	.019	126.93
	6	.017	332.31	6	.027	305.50	6	.018	350.96	6	.020	320.47	6	.048	279.10	6	.049	233.98
	7	.016	128.75	7	.031	315.27	7	.040	350.96	7	.020	202.78	7	.048	320.47	7	.049	233.98
	8	.019	31.74	8	.022	100.73	8	.011	161.86	8	.009	329.74	8	.054	326.67	8	.036	210.95
	9	.286	103.43	9	.039	303.91	9	.052	335.90	9	.009	329.74	9	.054	326.67	9	.036	210.95
	10			10			10			10			10			10		
X=.012 PRESSURE	1	9.579	27.97	1	9.820	30.73	1	11.804	30.73	1	11.804	28.97	1	12.849	26.94	1	15.767	22.10
	2	.009	329.96	2	.062	318.67	2	.094	318.67	2	.102	329.74	2	.093	326.67	2	.076	227.75
	3	.081	248.03	3	.066	300.92	3	.062	229.92	3	.082	229.92	3	.093	226.67	3	.076	227.75
	4	.063	191.67	4	.068	205.60	4	.095	148.51	4	.105	159.68	4	.093	167.23	4	.089	161.21
	5	.092	199.74	5	.062	148.51	5	.095	148.51	5	.105	159.68	5	.093	167.23	5	.089	161.21
	6	.123	212.92	6	.012	104.51	6	.030	111.06	6	.030	111.06	6	.093	167.23	6	.089	161.21
	7	.053	212.92	7	.046	138.15	7	.032	138.15	7	.032	138.15	7	.093	167.23	7	.089	161.21
	8	.231	260.11	8	.033	138.15	8	.033	138.15	8	.033	138.15	8	.093	167.23	8	.089	161.21
	9			9			9			9			9			9		
	10			10			10			10			10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3			W4			W5			W6			W7			W9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	8.520	196.53	1	8.537	191.20	1	4.501	186.36	1	2.079	156.02	1	1.823	142.19	1	1.207	102.39
	2	.227	96.22	2	.337	60.72	2	.104	206.99	2	.079	156.02	2	.123	162.19	2	.075	102.39
	3	.139	70.21	3	.050	96.97	3	.089	132.73	3	.091	159.74	3	.084	160.19	3	.009	191.36
	4	.056	226.33	4	.110	61.12	4	.020	137.17	4	.015	327.64	4	.023	121.37	4	.009	191.36
	5	.115	358.75	5	.019	267.43	5	.020	339.54	5	.023	320.62	5	.019	317.80	5	.025	300.31
	6	.051	158.33	6	.019	169.43	6	.021	178.49	6	.027	336.08	6	.017	325.59	6	.051	300.31
	7	.048	192.20	7	.065	207.10	7	.040	178.49	7	.016	336.08	7	.056	325.59	7	.014	300.31
	8	.054	183.20	8	.114	311.42	8	.069	335.53	8	.029	336.08	8	.056	325.59	8	.054	300.31
	9			9			9			9			9			9		
	10			10			10			10			10			10		

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 20 ALPHA-MCL = 2.0 POP PUN.PI 6.06  
PUN 6 ALPHA-BAR = 3.0 C-COMP = .32523  
POINT 2 SIGMA = 90. V-REF = 199.99  
COMPUTED FREQUENCY = 9.15, K = .0719

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
SUCTION

N	CPREAL	CPIMAG
1	24.203	7.410
2	-.123	-.634
3	.430	1.104
4	1.022	-.527
5	-.312	.278
6	.494	-.541
7	.105	-.072
8	.316	-.091
9	-.039	-.082
10		

X=.012  
SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	5.016	-19.864	1	19.192	6.892	1	4.821	16.062
2	-2.631	3.634	2	3.207	-.642	2	-1.551	.683
3	.065	-.056	3	-.664	-.800	3	-.566	.239
4	-.953	.217	4	.202	-.482	4	-.387	.379
5	.736	-.095	5	-.032	-.180	5	.054	-.069
6	-.131	-.098	6	-.153	-.005	6	.100	.167
7	-.171	-.188	7	-.005	-.058	7	.150	.068
8	-.307	-.425	8	-.116	.061	8	.023	.103
9	-.142	-.216	9	-.077	.061	9	-.025	.060
10			10			10	-.021	.026

X=.020  
SUCTION

N	CPREAL	CPIMAG
1	6.955	1.597
2	-.380	-.029
3	-.067	.304
4	-.032	.108
5	-.017	.078
6	.023	-.037
7	.053	-.034
8	-.001	.016
9	-.035	.040
10		

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 20 ALPHA-MCL = 2.0 POP RUN.PI 6.06  
 RUN 6 ALPHA-BAR = 2.0 Q-COMP = .32523  
 POINT 2 SIGMA = 90. V-REF = 199.99  
 COMPUTED FREQUENCY = 9.15, K = .0719

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3		4		5		6		7		9	
X=.062	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL
SUCTION	1	-.963	1	1.220	1	1.521	1	6.993	1	1.523	1	1.770
	2	-.125	2	-.244	2	-.170	2	-.208	2	-.131	2	-.165
	3	-.276	3	-.138	3	-.158	3	-.266	3	-.077	3	-.230
	4	-.037	4	-.047	4	-.063	4	-.005	4	-.090	4	-.050
	5	-.037	5	-.063	5	-.032	5	-.005	5	-.030	5	-.011
	6	-.060	6	-.043	6	-.065	6	-.006	6	-.100	6	-.019
	7	-.038	7	-.015	7	-.016	7	-.029	7	-.021	7	-.027
	8	-.001	8	-.035	8	-.016	8	-.020	8	-.004	8	-.033
	9	-.001	9	-.023	9	-.023	9	-.025	9	-.004	9	-.037
	10	-.001	10	-.033	10	-.023	10	-.025	10	-.026	10	-.037
	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL
	1	.963	1	1.220	1	1.521	1	6.794	1	1.523	1	1.770
	2	-.125	2	-.244	2	-.170	2	-.206	2	-.131	2	-.165
	3	-.276	3	-.138	3	-.158	3	-.143	3	-.077	3	-.230
	4	-.037	4	-.047	4	-.063	4	-.057	4	-.097	4	-.050
	5	-.037	5	-.063	5	-.032	5	-.071	5	-.012	5	-.018
	6	-.060	6	-.043	6	-.065	6	-.060	6	-.004	6	-.034
	7	-.038	7	-.015	7	-.016	7	-.006	7	-.001	7	-.043
	8	-.001	8	-.035	8	-.016	8	-.007	8	-.004	8	-.015
	9	-.001	9	-.023	9	-.023	9	-.026	9	-.004	9	-.018
	10	-.001	10	-.033	10	-.023	10	-.026	10	-.026	10	-.018
	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL
X=.012	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL
PRESSURE	1	.000	1	4.470	1	12.676	1	12.676	1	5.710	1	8.167
	2	.000	2	-.910	2	-.666	2	-.666	2	-1.970	2	-3.995
	3	.000	3	-.178	3	-.276	3	-.276	3	-1.447	3	-3.775
	4	.000	4	-.055	4	-.145	4	-.145	4	-.373	4	-.955
	5	.000	5	-.062	5	-.125	5	-.125	5	-.320	5	-.537
	6	.000	6	-.039	6	-.104	6	-.104	6	-.181	6	-.207
	7	.000	7	-.056	7	-.058	7	-.058	7	-.161	7	-.178
	8	.000	8	-.028	8	-.059	8	-.059	8	-.040	8	-.008
	9	.000	9	-.031	9	-.015	9	-.015	9	-.020	9	-.017
	10	.000	10	-.055	10	-.030	10	-.032	10	-.020	10	-.008

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	.062		.125		.250		.750		.875		.938	
GAP FRACTION	N	CPREAL CPIMAG	N	CPREAL CPIMAG	N	CPREAL CPIMAG	N	CPREAL CPIMAG	N	CPREAL CPIMAG	N	CPREAL CPIMAG
1	-.9306	-.291	1	-.332	1	-.5039	1	-2.651	1	-2.409	1	-2.293
2	-.823	-1.695	2	-.5246	2	-.785	2	-3.337	2	-.281	2	-.3177
3	-.113	-.230	3	-.0287	3	-.261	3	-1.042	3	-.329	3	-.3065
4	-.124	-.083	4	-.094	4	-.166	4	-.044	4	-.047	4	-.085
5	-.124	-.083	5	-.037	5	-.116	5	-.016	5	-.053	5	-.0827
6	-.003	-.006	6	-.101	6	-.003	6	-.039	6	-.024	6	-.0107
7	-.003	-.006	7	-.037	7	-.008	7	-.065	7	-.002	7	-.002
8	-.003	-.006	8	-.037	8	-.008	8	-.065	8	-.002	8	-.002
9	-.003	-.006	9	-.101	9	-.003	9	-.039	9	-.024	9	-.0107
10	-.003	-.006	10	-.037	10	-.008	10	-.065	10	-.002	10	-.002



OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 20 ALPHA-MCL = 2.0 POP RUN.PT 6.06  
RUN 6 ALPHA-BAR = 2.0 O-COMP = .32523  
POINT 2 SIGMA = 90. V-REF = 199.99  
COMPUTED FREQUENCY = 9.15, K = .0719

FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
XE:005 SUCTION						
N	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
CP-MAG	20.487 4.486 1.303 .978 .742 .163 .255 .253	20.392 5.642 1.202 .483 .512 .158 .128 .093	16.769 1.339 .614 .102 .071 .195 .174 .105 .033	21.874 4.259 1.035 .380 .706 .187 .248 .378 .203	15.992 1.246 .199 .111 .133 .069 .072 .023 .031	17.037 2.246 1.155 .276 .113 .044 .037
PHI	194.17 305.91 48.32 77.17 187.70 306.70 327.11 56.69	199.75 304.64 50.32 354.77 200.31 358.30 333.57 138.87	196.71 329.30 67.12 148.69 49.51 239.04 300.43 77.34 202.70 508.72	197.19 303.78 73.24 356.48 95.60 185.33 120.84 222.87 258.21	195.67 310.62 257.28 128.11 195.79 261.37 61.14 45.22 340.93 327.16	198.47 316.07 68.12 173.97 282.97 340.97 94.23 181.23
XE:012 SUCTION						
N	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
CP-MAG	20.487 4.486 1.303 .978 .742 .163 .255 .253	20.392 5.642 1.202 .483 .512 .158 .128 .093	16.769 1.339 .614 .102 .071 .195 .174 .105 .033	21.874 4.259 1.035 .380 .706 .187 .248 .378 .203	15.992 1.246 .199 .111 .133 .069 .072 .023 .031	17.037 2.246 1.155 .276 .113 .044 .037
PHI	194.17 305.91 48.32 77.17 187.70 306.70 327.11 56.69	199.75 304.64 50.32 354.77 200.31 358.30 333.57 138.87	196.71 329.30 67.12 148.69 49.51 239.04 300.43 77.34 202.70 508.72	197.19 303.78 73.24 356.48 95.60 185.33 120.84 222.87 258.21	195.67 310.62 257.28 128.11 195.79 261.37 61.14 45.22 340.93 327.16	198.47 316.07 68.12 173.97 282.97 340.97 94.23 181.23
XE:030 SUCTION						
N	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
CP-MAG	20.487 4.486 1.303 .978 .742 .163 .255 .253	20.392 5.642 1.202 .483 .512 .158 .128 .093	16.769 1.339 .614 .102 .071 .195 .174 .105 .033	21.874 4.259 1.035 .380 .706 .187 .248 .378 .203	15.992 1.246 .199 .111 .133 .069 .072 .023 .031	17.037 2.246 1.155 .276 .113 .044 .037
PHI	194.17 305.91 48.32 77.17 187.70 306.70 327.11 56.69	199.75 304.64 50.32 354.77 200.31 358.30 333.57 138.87	196.71 329.30 67.12 148.69 49.51 239.04 300.43 77.34 202.70 508.72	197.19 303.78 73.24 356.48 95.60 185.33 120.84 222.87 258.21	195.67 310.62 257.28 128.11 195.79 261.37 61.14 45.22 340.93 327.16	198.47 316.07 68.12 173.97 282.97 340.97 94.23 181.23

# OCWT PERIODICITY TEST MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 20 ALPHA-MCL = 2.0 POP RUN.P3 6.06  
 RUN 6 ALPHA-BAR = 2.0 O-COMP = 32523  
 POINT 2 SIGMA = 90. V-REF = 166.66  
 COMPUTED FREQUENCY = 9.15, K = .0719

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 1											
X=.062											
SUCTION											
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	7.029	187.88	1	6.545	190.74	1	7.157	192.25	1	7.230	189.42
2	.245	159.43	2	.342	224.42	2	.262	231.35	2	.335	216.49
3	.350	232.08	3	.308	296.64	3	.213	193.74	3	.374	270.70
4	.091	68.71	4	.107	63.95	4	.085	193.74	4	.082	270.70
5	.038	96.79	5	.072	28.54	5	.085	280.52	5	.099	100.50
6	.095	290.48	6	.096	110.56	6	.031	86.52	6	.087	277.74
7	.066	64.26	7	.076	122.47	7	.063	331.41	7	.057	53.54
8	.058	48.60	8	.046	40.48	8	.017	121.11	8	.043	88.39
9	.009	175.35	9	.015	266.46	9	.022	224.65	9	.015	16.39
10	.020	267.66	10	.040	144.54	10	.035	310.75	10	.032	324.57
X=.012											
PRESSURE											
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	.000	.00	1	11.914	22.04	1	13.702	22.31	1	15.769	21.23
2	.000	.00	2	1.105	325.45	2	1.460	297.72	2	1.971	358.59
3	.000	.00	3	.280	39.94	3	.424	133.47	3	1.737	236.59
4	.000	.00	4	.100	56.94	4	.199	255.26	4	.677	127.56
5	.000	.00	5	.065	285.48	5	.113	304.39	5	.377	271.19
6	.000	.00	6	.102	292.25	6	.172	255.26	6	.277	132.69
7	.000	.00	7	.075	212.76	7	.070	33.87	7	.178	93.22
8	.000	.00	8	.034	67.86	8	.039	76.39	8	.040	76.61
9	.000	.00	9	.063	331.10	9	.069	118.11	9	.100	101.54
10	.000	.00	10			10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. 062											
GAP FRACTION											
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	9.584	193.63	1	9.462	189.48	1	2.694	169.80	1	2.774	166.77
2	1.884	195.82	2	2.256	283.39	2	.567	236.69	2	.591	241.57
3	.471	103.82	3	.505	84.75	3	.414	237.59	3	.451	235.89
4	.234	178.39	4	.158	79.88	4	.119	188.14	4	.138	177.75
5	.087	176.36	5	.079	69.73	5	.014	188.14	5	.017	146.20
6	.006	107.54	6	.141	119.14	6	.137	109.98	6	.134	109.20
7	.011	242.34	7	.046	42.17	7	.049	333.25	7	.054	142.64
8	.016	219.98	8	.037	182.58	8	.067	103.15	8	.065	93.64
9	.106	160.95	9	.042	169.17	9	.017	164.15	9	.025	156.34
10			10	.108	201.80	10	.055	154.69	10	.025	197.34

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 22 ALPHA-MCL = 2.0 POP RUN.PI 6.08  
PUN 6 ALPHA-BAR = 2.0 O-COMP = .32728  
POINT 4 SIGMA = 50. V-REF = 200.63  
COMPUTED FREQUENCY = 15.57, K = .1219

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=.005  
SUCTION

9

7

6

5

4

3

N	CPREAL	CPIMAG
1	24.101	6.200
2	-.109	-.414
3	.845	.778
4	.978	-.311
5	-.040	-.355
6	.699	.174
7	.251	-.486
8	.135	.044
9	.281	-.196
10	-.004	-.121

X=.012 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	4.732	-20.167	1	4.150	-15.351	1	4.560	17.034				
2	-2.307	4.000	2	-2.699	4.000	2	-1.315	1.212				
3	.898	-.210	3	.516	-.523	3	-.772	-.007				
4	.297	.568	4	.157	.559	4	-.143	.007				
5	.955	-.031	5	.424	.038	5	-.000	.015				
6	.558	-.183	6	.270	-.093	6	-.031	.025				
7	.074	-.113	7	.104	-.213	7	-.031	.073				
8	.458	-.367	8	.101	-.036	8	-.031	.056				
9	.105	-.104	9	.007	.025	9	-.031	.089				
10			10	.027	.020	10	-.031					

X=.030  
SUCTION

N	CPREAL	CPIMAG
1	7.332	1.568
2	-.128	.107
3	.087	.021
4	.062	.074
5	.034	.037
6	.051	.030
7	.033	.046
8	.016	.012
9	.005	
10		

OCWT PERIODICITY TEST  
 MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS  
 FILE 22 ALPHA-MCL = 2.0 POP RUN.PT 6.08  
 RUN 6 ALPHA-BAR = 2.0 Q-COMP = .32728  
 POINT 4 ALPHA SIGMA = 90. V-REF = 200.63  
 COMPUTED FREQUENCY = 15.57, K = .1219

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=062 SUCTION						
N	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
CPREAL	1.320 -1.115 -1.138 -1.001 -1.020 -1.063 -1.036 -1.027 -1.118	6.839 -0.044 -0.013 -0.026 -0.048 -0.028 -0.026 -0.009 -0.013	1.305 -1.119 -0.040 -0.026 -0.042 -0.009 -0.049 -0.011 -0.002	1.305 -1.129 -0.019 -0.004 -0.054 -0.033 -0.011 -0.041	1.477 -1.080 -1.114 -1.045 -1.015 -1.074 -1.036 -1.042	6.791 -0.622 -0.077 -0.044 -0.049 -0.098 -0.018
CPIMAG	-6.633 -1.062 -0.043 -0.057 -0.051 -0.051 -0.052 -0.116 -0.013	7.035 -1.129 -0.019 -0.004 -0.054 -0.033 -0.011 -0.041	7.035 -1.129 -0.019 -0.004 -0.054 -0.033 -0.011 -0.041	7.035 -1.129 -0.019 -0.004 -0.054 -0.033 -0.011 -0.041	7.035 -1.129 -0.019 -0.004 -0.054 -0.033 -0.011 -0.041	7.035 -1.129 -0.019 -0.004 -0.054 -0.033 -0.011 -0.041
X=012 PRESSURE						
N	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
CPREAL	.000 .000 .000 .000 .000 .000 .000 .000 .000	4.605 -1.589 -0.058 -0.027 -0.004 -0.008 -0.006 -0.055	13.219 -1.477 -1.441 -0.029 -0.010 -0.021 -0.039 -0.015	5.067 -1.405 -1.097 -0.003 -0.033 -0.011 -0.009 -0.005	3.794 -1.573 -1.045 -1.045 -1.045 -1.045 -1.045 -1.045	8.033 -1.525 -1.400 -1.400 -1.400 -1.400 -1.400 -1.400
CPIMAG	.000 .000 .000 .000 .000 .000 .000 .000 .000	10.080 -0.713 -0.069 -0.026 -0.029 -0.038 -0.012 -0.014	13.219 -1.477 -1.441 -0.029 -0.010 -0.021 -0.039 -0.015	5.067 -1.405 -1.097 -0.003 -0.033 -0.011 -0.009 -0.005	3.794 -1.573 -1.045 -1.045 -1.045 -1.045 -1.045 -1.045	8.033 -1.525 -1.400 -1.400 -1.400 -1.400 -1.400 -1.400

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	W3	W4	W5	W7	W8	W9
GAP FRACTION						
N	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
CPREAL	-9.005 1.073 -1.268 -1.244 -1.022 -1.068 -1.026 -1.044 -1.053	-8.892 -9.021 -9.077 -9.105 -9.139 -9.173 -9.207 -9.241 -9.275	-4.400 -4.325 -4.250 -4.175 -4.100 -4.025 -3.950 -3.875 -3.800	-1.883 -1.818 -1.753 -1.688 -1.623 -1.558 -1.493 -1.428 -1.363	-1.648 -1.583 -1.518 -1.453 -1.388 -1.323 -1.258 -1.193 -1.128	-1.567 -1.502 -1.437 -1.372 -1.307 -1.242 -1.177 -1.112 -1.047
CPIMAG	-1.430 -1.586 -1.742 -1.898 -2.054 -2.210 -2.366 -2.522 -2.678	-8.892 -9.021 -9.077 -9.105 -9.139 -9.173 -9.207 -9.241 -9.275	-4.400 -4.325 -4.250 -4.175 -4.100 -4.025 -3.950 -3.875 -3.800	-1.883 -1.818 -1.753 -1.688 -1.623 -1.558 -1.493 -1.428 -1.363	-1.648 -1.583 -1.518 -1.453 -1.388 -1.323 -1.258 -1.193 -1.128	-1.567 -1.502 -1.437 -1.372 -1.307 -1.242 -1.177 -1.112 -1.047

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 22 ALPHA-MCL = 2.0 POP RUN.PT 6.08  
 RUN 6 ALPHA-BAR = 2.0 O-COMP = .32728  
 POINT 4 SIGMA = 90. V-REF = 200.63  
 COMPUTED FFEQUENCY = 15.57, K = .1219

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

3

4

5

6

7

9

N	CP-MAG	PHI
1	24.886	194.43
2	.428	255.20
3	1.148	222.65
4	1.026	342.57
5	.357	83.63
6	.720	13.97
7	.546	117.50
8	.142	117.89
9	.342	145.05
10	.121	267.90

N	CP-MAG	PHI
1	25.987	197.47
2	5.280	300.93
3	1.063	60.93
4	.482	337.47
5	.482	86.32
6	.278	187.46
7	.112	129.44
8	.070	135.48
9	.074	330.57
10	.074	184.17

X=012  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	20.711	193.21	1	16.764	193.65	1	15.902	195.13
2	4.683	299.52	2	1.106	305.97	2	1.343	301.69
3	1.237	40.82	3	.065	61.10	3	.230	166.34
4	.436	323.90	4	.090	32.29	4	.211	166.34
5	1.111	59.28	5	.160	100.52	5	.134	356.59
6	.515	176.91	6	.197	194.70	6	.080	202.07
7	.187	167.42	7	.142	270.05	7	.136	202.07
8	.487	193.43	8	.107	43.94	8	.042	344.17
9	.551	108.72	9	.067	166.26	9	.135	153.09
10	.151	134.43	10	.036	317.34	10	.135	153.09

X=030  
 SUCTION

N	CP-MAG	PHI
1	7.497	192.07
2	.167	140.13
3	.089	193.84
4	.097	129.84
5	.079	241.41
6	.057	39.75
7	.060	329.22
8	.056	54.21
9	.019	328.50
10	.013	66.78

X=030  
 SUCTION

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 22 ALPHA-MCL = 2.0 POP RUN/PT 6.08  
 RUN 6 ALPHA-BAR = 2.0 Q-COMP = 32728  
 POINT 4 SIGMA = 90.0 V-REF = 200.63  
 COMPUTED FREQUENCY = 15.57, % = .1219  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3										7										9									
X=062										6										5									
SUCTION										4										3									
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	6.763	191.25	1	6.963	190.80	1	7.090	187.13	1	6.642	188.39	1	6.950	192.27	1	7.279	189.50	1	7.279	189.50	1	7.279	189.50	1	7.279	189.50	1	7.279	189.50
2	.157	137.44	2	.127	129.24	2	.213	142.66	2	.166	139.57	2	.089	126.71	2	.151	149.09	2	.151	149.09	2	.151	149.09	2	.151	149.09	2	.151	149.09
3	.143	281.02	3	.052	129.50	3	.150	207.07	3	.116	247.75	3	.019	298.74	3	.089	220.81	3	.089	220.81	3	.089	220.81	3	.089	220.81	3	.089	220.81
4	.060	340.20	4	.027	188.76	4	.019	171.32	4	.026	33.58	4	.089	230.30	4	.089	222.66	4	.089	222.66	4	.089	222.66	4	.089	222.66	4	.089	222.66
5	.059	300.71	5	.063	142.40	5	.037	358.48	5	.046	45.19	5	.076	255.60	5	.076	222.70	5	.076	222.70	5	.076	222.70	5	.076	222.70	5	.076	222.70
6	.124	210.77	6	.029	342.40	6	.073	137.41	6	.046	290.77	6	.104	69.36	6	.104	132.27	6	.104	132.27	6	.104	132.27	6	.104	132.27	6	.104	132.27
7	.063	54.78	7	.056	62.12	7	.038	209.95	7	.089	71.09	7	.040	339.55	7	.040	200.97	7	.040	200.97	7	.040	200.97	7	.040	200.97	7	.040	200.97
8	.119	346.80	8	.015	309.45	8	.045	275.01	8	.050	36.14	8	.084	192.71	8	.084	259.75	8	.084	259.75	8	.084	259.75	8	.084	259.75	8	.084	259.75
9	.118	173.55	9	.013	352.45	9	.045	275.01	9	.050	36.14	9	.084	192.71	9	.084	259.75	9	.084	259.75	9	.084	259.75	9	.084	259.75	9	.084	259.75
10	.118	173.55	10	.013	352.45	10	.045	275.01	10	.050	36.14	10	.084	192.71	10	.084	259.75	10	.084	259.75	10	.084	259.75	10	.084	259.75	10	.084	259.75

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. 3										7										9									
GAP FRACTION										6										5									
W3										W5										W7									
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	9.118	189.08	1	8.930	185.31	1	.401	178.69	1	2.141	151.58	1	1.996	145.62	1	1.996	145.62	1	1.996	145.62	1	1.996	145.62	1	1.996	145.62	1	1.996	145.62
2	.271	304.94	2	.204	294.19	2	.102	212.21	2	.083	254.90	2	.083	254.90	2	.083	254.90	2	.083	254.90	2	.083	254.90	2	.083	254.90	2	.083	254.90
3	.208	53.39	3	.084	22.39	3	.070	119.98	3	.008	57.00	3	.007	88.39	3	.007	88.39	3	.007	88.39	3	.007	88.39	3	.007	88.39	3	.007	88.39
4	.082	111.61	4	.101	60.84	4	.054	135.95	4	.022	67.74	4	.060	79.39	4	.060	79.39	4	.060	79.39	4	.060	79.39	4	.060	79.39	4	.060	79.39
5	.089	64.92	5	.042	120.94	5	.029	106.40	5	.008	227.74	5	.037	255.94	5	.037	255.94	5	.037	255.94	5	.037	255.94	5	.037	255.94	5	.037	255.94
6	.093	73.48	6	.080	86.76	6	.105	106.40	6	.008	105.46	6	.023	93.31	6	.023	93.31	6	.023	93.31	6	.023	93.31	6	.023	93.31	6	.023	93.31
7	.057	40.67	7	.061	91.77	7	.033	334.13	7	.048	123.84	7	.048	123.84	7	.048	123.84	7	.048	123.84	7	.048	123.84	7	.048	123.84	7	.048	123.84
8	.057	40.67	8	.061	91.77	8	.033	334.13	8	.048	123.84	8	.048	123.84	8	.048	123.84	8	.048	123.84	8	.048	123.84	8	.048	123.84	8	.048	123.84
9	.057	40.67	9	.061	91.77	9	.033	334.13	9	.048	123.84	9	.048	123.84	9	.048	123.84	9	.048	123.84	9	.048	123.84	9	.048	123.84	9	.048	123.84
10	.057	40.67	10	.061	91.77	10	.033	334.13	10	.048	123.84	10	.048	123.84	10	.048	123.84	10	.048	123.84	10	.048	123.84	10	.048	123.84	10	.048	123.84

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 24 ALPHA-MCL = 2.0 PUP RUN PT 6.10  
 RUN 6 ALPHA-BAR = 2.0 O-COMP = 32656  
 POINT 6 SIGMA = 90. V-REF = 200.40  
 COMPUTED FREQUENCY = 19.21, K = .1506

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

N	CPREAL	CPIMAG
1	24.397	5.459
2	-1.112	-564
3	.850	.700
4	.895	-400
5	-.004	-499
6	.541	-.097
7	.056	-.517
8	.072	-.048
9	.220	-.239
10	-.005	-.163

X=.012  
 SUCTION

N	CPREAL	CPIMAG
1	3.968	-20.487
2	-2.017	4.195
3	.624	-.999
4	-.161	-.336
5	-.516	-.680
6	-.094	-.230
7	-.397	-.169
8	-.954	-.093
9	-.253	-.123
10		-.053

X=.030  
 SUCTION

N	CPREAL	CPIMAG
1	7.205	1.364
2	-1.197	-.079
3	.121	.113
4	-.038	.100
5	.039	.040
6	-.017	-.034
7	-.051	-.056
8	-.016	-.014
9	-.002	-.019
10		-.012

9

7

6

5

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	3.998	16.091	1	3.703	-15.516	1	3.785	16.405	1	20.007	5.609
2	-1.176	1.355	2	-.689	1.037	2	-.689	.841	2	2.245	-.633
3	-.706	.227	3	-.168	-.095	3	-.033	.292	3	-.633	-.121
4	-.214	-.082	4	-.011	-.042	4	.097	-.122	4	-.121	-.106
5	-.139	-.019	5	-.002	-.014	5	.009	-.048	5	-.106	-.425
6	-.023	-.002	6	-.078	.071	6	.003	.055	6	-.425	-.222
7	-.096	-.040	7	-.008	.027	7	.073	.060	7	-.222	-.169
8			8	-.078	.068	8	.013	.121	8	-.169	-.021
9			9	-.008	.020	9	.013	.084	9	-.021	-.020
10			10	-.078	-.059	10	.013	.084	10	-.020	-.020

OCUT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 24 ALPHA-MCL = 2.0 POP RUN-PI 6:10  
RUN 6 ALPHA-BAR = 3.0 Q-COMP = 12656  
POINT 6 SIGMA = 90.0 V-REF = 200.40  
COMPUTED FREQUENCY = 19.21, K = .1506

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9						
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	.943	-6.861	1	1.138	6.672	1	-1.106	7.102	1	-991	-9.969
2	2	.014	-.190	2	.164	-.079	2	.012	-.230	2	-130	-.041
3	3	-.104	.100	3	.079	-.057	3	.046	-.013	3	-.039	-.000
4	4	-.062	.004	4	.063	-.048	4	.033	-.039	4	-.003	-.003
5	5	-.031	.016	5	-.020	-.000	5	-.026	-.006	5	-.057	.011
6	6	-.069	.047	6	.029	-.028	6	-.043	-.010	6	-.033	.013
7	7	-.059	.154	7	.017	-.046	7	.003	-.007	7	-.027	.006
8	8	.093	.006	8	.018	-.012	8	.009	-.004	8	-.021	.084
9	9	.023	.036	9	.030	-.002	9	-.028	-.003	9	-.047	.019
10	10	-.134	-.012	10	-.014	.038	10	.007	.043	10	-.018	.080
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	.000	.000	1	4.081	-10.394	1	13.060	4.943	1	3.922	14.654
2	2	.000	.000	2	-.569	.690	2	.796	-1.484	2	-2.021	14.907
3	3	.000	.000	3	-.025	-.022	3	-.094	.004	3	-1.120	1.161
4	4	.000	.000	4	.028	-.022	4	-.029	.065	4	-.224	1.191
5	5	.000	.000	5	-.038	-.022	5	.039	-.002	5	.174	-.230
6	6	.000	.000	6	-.001	-.029	6	.108	-.078	6	.167	-.160
7	7	.000	.000	7	.008	.000	7	-.045	.044	7	.197	.046
8	8	.000	.000	8	-.001	-.002	8	.024	.070	8	.052	.046
9	9	.000	.000	9	-.013	-.002	9	.001	.010	9	.022	.010
10	10	.000	.000	10	.027	-.013	10	-.084	.045	10	-.051	-.133

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938		
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-9.191	-1.346	-4.780	-2.381	.882	-2.413	1.005	1.005
2	.859	-1.626	1.122	-.021	-.313	.083	-.003	-.003
3	.126	.208	-.041	-.003	.065	.005	.005	.005
4	-.126	.149	.027	.017	.078	.004	.011	.019
5	-.071	-.058	-.001	.009	-.005	.011	-.001	-.033
6	-.072	.002	1.120	-.092	-.022	.001	.001	.000
7	-.036	.005	1.118	.002	.008	.033	-.000	.038
8	.036	-.064	.018	-.037	-.019	-.033	.033	-.000
9	-.050	.060	-.016	.008	.010	.033	.033	-.000
10	-.068	-.043	.018	-.008	-.002	.033	.033	-.000



# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 24 ALPHA-MCL = 2.0 PUP RUN.PT 6.10  
 PUN 6 ALPHA-BAR = 2.0 C-COMP = .32656  
 POINT 6 SIGMA = 90. V-REF = 200.40  
 COMPUTED FREQUENCY = 19.21, K = .1506

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XZ=005  
 SUCTION

9

7

6

5

4

3

N	CP-MAG	PHI
1	25.000	192.61
2	.575	258.74
3	1.101	219.45
4	.981	335.90
5	.499	89.50
6	.550	349.89
7	.520	96.19
8	.087	136.42
9	.325	136.63
10	.163	268.14

XZ=012 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	20.867	190.95	1	16.836	192.99	1	21.685	193.49	1	15.952	193.42	1	16.969	193.63	
2	4.655	295.68	2	1.072	308.27	2	4.215	302.84	2	1.245	303.61	2	1.791	306.84	
3	1.272	240.57	3	.383	10.24	3	1.041	354.72	3	.191	160.20	3	.535	63.29	
4	1.273	295.57	4	.160	81.80	4	.503	336.76	4	.198	177.37	4	.217	154.95	
5	1.041	48.61	5	.100	77.41	5	.668	88.32	5	.069	9.81	5	.348	260.23	
6	.565	155.95	6	.049	258.96	6	1.48	166.67	6	.071	11.85	6	.141	197.19	
7	.397	150.80	7	.108	300.45	7	.270	116.94	7	.083	186.77	7	.023	186.02	
8	.655	180.41	8	.093	40.47	8	.396	223.20	8	.058	18.59	8	.098	179.86	
9	.259	271.09	9	.123	169.04	9	.050	156.24	9	.058	216.93	9	.165	194.12	
10	.259	348.17	10	.085	259.97	10	.257	291.01	10	.058	216.93	10	.165	194.12	

XZ=030  
 SUCTION

N	CP-MAG	PHI
7	.332	190.72
1	.212	158.17
2	.166	223.09
3	.107	111.10
4	.056	225.67
5	.038	243.69
6	.075	312.10
7	.014	278.11
8	.023	327.96
9	.023	327.96
10	.023	327.96

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 24 ALPHA-MCL = 2.0 POP RUN.PI 6.10  
 RUN 6 ALPHA-BAR = 2.0 Q-COMP = .32656  
 POINT 6 SIGMA = 90. V-REF = 200.40  
 COMPUTED FREQUENCY = 19.21, K = .1506  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
X=.062	1	6.925	187.82	1	7.188	188.85	1	7.001	188.14	1	7.058	189.07	1	7.249	190.24
SUCTION	2	.190	194.14	2	.230	193.04	2	.055	184.17	2	.075	189.55	2	.052	183.57
	3	.144	226.51	3	.088	278.62	3	.055	147.43	3	.010	211.40	3	.052	175.67
	4	.063	232.51	4	.063	337.68	4	.066	159.21	4	.058	179.11	4	.066	178.74
	5	.035	63.30	5	.039	336.28	5	.052	244.77	5	.036	338.11	5	.068	166.74
	6	.076	321.61	6	.137	332.35	6	.027	153.07	6	.033	255.11	6	.033	161.11
	7	.165	201.07	7	.064	98.71	7	.027	305.84	7	.033	255.11	7	.033	161.11
	8	.093	203.83	8	.025	195.32	8	.016	305.27	8	.032	241.34	8	.032	161.11
	9	.209	279.98	9	.060	207.49	9	.049	154.66	9	.032	241.34	9	.032	161.11
	10	.134	5.19	10	.063	260.95	10	.089	348.42	10	.091	241.34	10	.084	206.61
X=.012	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
PRESSURE	1	.000	.00	1	11.167	21.43	1	13.964	20.73	1	15.172	19.98	1	20.708	19.64
	2	.000	.00	2	.894	309.53	2	1.684	298.23	2	2.261	19.35	2	5.537	19.64
	3	.000	.00	3	.038	49.05	3	.071	177.39	3	1.540	221.97	3	1.837	230.13
	4	.000	.00	4	.028	355.26	4	.039	113.70	4	2.311	116.52	4	2.218	271.03
	5	.000	.00	5	.047	240.03	5	.133	215.00	5	2.311	116.52	5	1.707	251.89
	6	.000	.00	6	.007	82.06	6	.063	113.54	6	1.971	90.70	6	1.874	181.20
	7	.000	.00	7	.048	52.24	7	.075	110.13	7	.069	115.17	7	1.524	191.09
	8	.000	.00	8	.001	176.83	8	.010	82.35	8	.024	115.17	8	1.367	191.09
	9	.000	.00	9	.013	153.21	9	.010	152.09	9	.143	168.89	9	1.147	116.29
	10	.000	.00	10	.030	153.21	10	.096	152.09	10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3			W4			W5			W7			W8			W9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	9.289	189.33	189.33	1	9.107	184.85	1	4.780	179.42	1	2.539	159.68	1	2.332	155.02	1	2.250	153.87
2	.258	53.74	53.74	2	.404	41.85	2	.087	118.05	2	.314	166.12	2	.362	174.61	2	.062	180.87
3	.195	49.82	49.82	3	.115	31.83	3	.153	110.13	3	.065	92.88	3	.050	95.79	3	.062	92.97
4	.123	207.57	207.57	4	.072	180.20	4	.123	169.98	4	.080	77.91	4	.099	85.59	4	.027	92.67
5	.072	176.25	176.25	5	.146	166.20	5	.123	169.98	5	.102	198.04	5	.112	180.32	5	.065	189.48
6	.072	299.63	299.63	6	.053	130.81	6	.018	321.16	6	.008	172.58	6	.033	180.32	6	.009	199.58
7	.078	130.09	130.09	7	.090	124.55	7	.044	105.22	7	.041	206.73	7	.033	180.32	7	.035	199.58
8	.081	327.51	327.51	8	.060	341.14	8	.022	325.82	8	.013	127.29	8	.033	180.32	8	.035	199.58
9				9			9			9			9			9		
10				10			10			10			10			10		

OCWT PERIODICITY TEST  
 MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS  
 FILE 26 ALPHA-MCL = 2.0 PDP RUN.PT 7.05  
 PUN 7 ALPHA-BAR = 2.0 O-COMP = .32316  
 POINT 2 SIGMA = .135 V-REF = .199.36  
 COMPUTED FREQUENCY = 9.16, K = .0722  
 FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

3  
 4  
 5  
 6  
 7  
 9

N	CPREAL	CPIMAG
1	3.320	-27.669
2	.476	-.075
3	-.364	1.567
4	.539	-.770
5	.080	.045
6	.587	.504
7	.430	-.505
8	.140	.031
9	-.546	.097
10	.233	.031

X=.012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	18.977	15.526	1	4.172	-24.298	1	11.067	15.013	1	16.323	-13.402
2	-5.459	-1.264	2	-1.236	5.719	2	1.230	-.688	2	-2.952	-.512
3	-.434	.837	3	.373	-.611	3	-.024	-.085	3	.611	-.718
4	-.292	.357	4	-.480	.628	4	-.184	.094	4	-.212	-.669
5	-.975	-.140	5	-.293	-.212	5	-.090	.104	5	-.389	-.160
6	-.207	.105	6	.281	-.246	6	.090	.021	6	-.179	.122
7	-.299	.104	7	-.043	-.089	7	-.101	-.049	7	-.015	-.014
8	.104	-.034	8	.154	-.089	8	-.071	.124	8	-.012	.014
9	.184	.262	9	.154	-.041	9	-.091	.066	9	-.026	.009
10			10			10			10		

X=.030  
 SUCTION

N	CPREAL	CPIMAG
1	1.033	-.8.607
2	.279	-.319
3	.078	-.007
4	-.066	.216
5	.141	-.106
6	-.050	.038
7	-.009	-.070
8	-.033	.030
9	.015	-.024
10	.005	.004

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 26 ALPHA-MCL = 2.0 PDP RUN-PT 7.05  
RUN 7 ALPHA-BAR = 13.0 Q-COMP = 32316  
POINT 2 SIGMA = 135.0 V-REF = 199.36  
COMPUTED FREQUENCY = 9.16, K = .0722

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3										5										6										9									
	N		CPREAL		CPIMAG		N		CPREAL		CPIMAG		N		CPREAL		CPIMAG		N		CPREAL		CPIMAG		N		CPREAL		CPIMAG		N		CPREAL		CPIMAG					
X=.062	1	-5.576	4.783	.866	-7.805	1	5.220	5.665	-7.424	1	1.146	1	.504	-5.897	1	2.270	-6.082	1	1.146	1	.504	-5.897	1	2.270	-6.082	1	1.146	1	.504	-5.897	1	2.270	-6.082							
SUCTION	2	.120	-.165	.067	-.170	2	.158	-.133	.298	2	-.232	2	.029	.099	2	.135	-.077	2	.232	2	.029	.099	2	.135	-.077	2	.232	2	.029	.099	2	.135	-.077							
	3	.057	.021	.021	-.096	3	.103	-.151	.040	3	-.233	3	.023	.099	3	.135	-.077	3	.232	3	.023	.099	3	.135	-.077	3	.232	3	.023	.099	3	.135	-.077							
	4	.023	.071	.051	.096	4	.002	.049	.011	4	.115	4	.032	.105	4	.030	.017	4	.115	4	.032	.105	4	.030	.017	4	.115	4	.032	.105	4	.030	.017							
	5	.004	.023	.025	.026	5	.001	.010	.012	5	.084	5	.027	.077	5	.022	.012	5	.084	5	.027	.077	5	.022	.012	5	.084	5	.027	.077	5	.022	.012							
	6	.054	.048	.009	.037	6	.026	.057	.008	6	.008	6	.027	.049	6	.049	.012	6	.008	6	.027	.049	6	.049	.012	6	.008	6	.027	.049	6	.049	.012							
	7	.024	.024	.009	.037	7	.026	.057	.008	7	.008	7	.027	.049	7	.049	.012	7	.008	7	.027	.049	7	.049	.012	7	.008	7	.027	.049	7	.049	.012							
	8	.024	.024	.009	.037	8	.026	.057	.008	8	.008	8	.027	.049	8	.049	.012	8	.008	8	.027	.049	8	.049	.012	8	.008	8	.027	.049	8	.049	.012							
	9	.024	.024	.009	.037	9	.026	.057	.008	9	.008	9	.027	.049	9	.049	.012	9	.008	9	.027	.049	9	.049	.012	9	.008	9	.027	.049	9	.049	.012							
	10	.015	.015	.034	.010	10	.013	.023	.014	10	.006	10	.012	.017	10	.006	.012	10	.006	10	.012	.017	10	.006	.012	10	.006	10	.012	.017	10	.006	.012							
X=.012	1	12.749	-9.570	1.688	-11.744	1	6.807	11.744	16.402	1	2.879	1	1.4	10.916	1	13.451	18.953	1	2.879	1	1.4	10.916	1	13.451	18.953	1	2.879	1	1.4	10.916	1	13.451	18.953							
PRESSURE	2	-1.491	.907	.034	.114	2	.072	.207	.039	2	-.002	2	-.1554	-2.240	2	.093	-1.570	2	-.002	2	-.1554	-2.240	2	.093	-1.570	2	-.002	2	-.1554	-2.240	2	.093	-1.570							
	3	.034	.114	.072	.207	3	.038	.086	.041	3	.134	3	.093	.168	3	.209	.421	3	.038	3	.093	.168	3	.209	.421	3	.038	3	.093	.168	3	.209	.421							
	4	.157	.057	.045	.066	4	.022	.088	.009	4	.009	4	.304	.291	4	.577	.873	4	.009	4	.304	.291	4	.577	.873	4	.009	4	.304	.291	4	.577	.873							
	5	.087	.070	.045	.066	5	.022	.088	.009	5	.009	5	.304	.291	5	.577	.873	5	.009	5	.304	.291	5	.577	.873	5	.009	5	.304	.291	5	.577	.873							
	6	.025	.010	.022	.088	6	.000	.004	.009	6	.071	6	.056	.074	6	.310	.621	6	.009	6	.056	.074	6	.310	.621	6	.009	6	.056	.074	6	.310	.621							
	7	.053	.007	.000	.088	7	.053	.004	.009	7	.001	7	.074	.122	7	.090	.181	7	.001	7	.074	.122	7	.090	.181	7	.001	7	.074	.122	7	.090	.181							
	8	.012	.007	.000	.088	8	.053	.004	.009	8	.001	8	.074	.122	8	.090	.181	8	.001	8	.074	.122	8	.090	.181	8	.001	8	.074	.122	8	.090	.181							
	9	.095	.010	.053	.004	9	.053	.004	.009	9	.001	9	.074	.122	9	.090	.181	9	.001	9	.074	.122	9	.090	.181	9	.001	9	.074	.122	9	.090	.181							
	10	.035	.010	.061	.019	10	.061	.019	.003	10	.033	10	.209	.421	10	.090	.181	10	.003	10	.209	.421	10	.090	.181	10	.003	10	.209	.421	10	.090	.181							
*** WALL PRESSURES, PER RADIAN ***																																								
WALL NO.	3										5										6										9									
	N		CPREAL		CPIMAG		N		CPREAL		CPIMAG		N		CPREAL		CPIMAG		N		CPREAL		CPIMAG		N		CPREAL		CPIMAG		N		CPREAL		CPIMAG					
AP FRACTION	1	-10.377	-1.637	-9.867	-1.266	1	4.790	6.416	-2.343	1	102	1	2.157	-0.167	1	2.023	0.51	1	102	1	2.157	-0.167	1	2.023	0.51	1	102	1	2.157	-0.167	1	2.023	0.51							
	2	.960	-.180	.824	-.517	2	.325	-.263	.384	2	.069	2	.012	.287	2	.512	-.206	2	.069	2	.012	.287	2	.512	-.206	2	.069	2	.012	.287	2	.512	-.206							
	3	.086	.026	.003	-.055	3	.071	.143	.069	3	.023	3	.041	.085	3	.033	.046	3	.023	3	.041	.085	3	.033	.046	3	.023	3	.041	.085	3	.033	.046							
	4	.004	.008	.003	.093	4	.042	.048	.041	4	.011	4	.025	.043	4	.009	.031	4	.011	4	.025	.043	4	.009	.031	4	.011	4	.025	.043	4	.009	.031							
	5	.004	.008	.003	.093	5	.042	.048	.041	5	.011	5	.025	.043	5	.009	.031	5	.011	5	.025	.043	5	.009	.031	5	.011	5	.025	.043	5	.009	.031							
	6	.021	.045	.008	.033	6	.001	.053	.007	6	.006	6	.004	.004	6	.004	.004	6	.006	6	.004	.004	6	.004	.004	6	.006	6	.004	.004	6	.004	.004							
	7	.032	.011	.013	.025	7	.018	.007	.017	7	.003	7	.003	.006	7	.007	.003	7	.003	7	.003	.006	7	.007	.003	7	.003	7	.003	.006	7	.007	.003							
	8	.032	.011	.013	.025	8	.018	.007	.017	8	.003	8	.003	.006	8	.007	.003	8	.003	8	.003	.006	8	.007	.003	8	.003	8	.003	.006	8	.007	.003							
	9	.032	.011	.013	.025	9	.018	.007	.017	9	.003	9	.003	.006	9	.007	.003	9	.003	9	.003	.006	9	.007	.003	9	.003	9	.003	.006	9	.007	.003							
	10	.032	.011	.013	.025	10	.018	.007	.017	10	.003	10	.003	.006	10	.007	.003	10	.003	10	.003	.006	10	.007	.003	10	.003	10	.003	.006	10	.007	.003							

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 26 ALPHA-MCL = 2.0 POP RUN.PI 7.05  
 PUN 7 ALPHA-BAR = 135.0 C-COMP = .32316  
 POINT 2 SIGMA = 135.0 V-REF = 199.36  
 COMPUTED FREQUENCY = 9.16, K = .0722

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3  
 X=.005  
 SUCTION

N	CP-MAG	PHI
1	27.868	186.84
2	.482	171.11
3	1.609	191.07
4	.940	105.01
5	.091	299.23
6	.774	319.32
7	.663	40.38
8	.142	12.50
9	.555	79.93
10	.235	187.65

X=.012  
 SUCTION

N	CP-MAG	PHI
1	24.519	185.71
2	5.603	283.04
3	1.229	24.33
4	.686	24.26
5	1.038	24.89
6	.250	124.28
7	.343	158.28
8	.104	150.99
9	.320	142.12
10		144.98

X=.030  
 SUCTION

N	CP-MAG	PHI
1	8.668	186.84
2	.423	171.11
3	.078	191.07
4	.226	107.00
5	.176	107.18
6	.063	232.75
7	.071	332.49
8	.045	138.21
9	.027	205.23
10	.016	195.10

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	18.651	188.60	1	21.120	185.61	1	19.682	189.75
2	1.409	299.01	2	2.596	274.84	2	3.488	286.28
3	.089	299.71	3	.943	107.61	3	1.159	39.81
4	.172	326.89	4	.702	107.61	4	1.614	129.21
5	.133	183.89	5	.222	202.17	5	.291	215.20
6	.092	107.80	6	.123	209.56	6	.105	219.68
7	.112	210.80	7	.018	37.85	7	.105	229.58
8	.196	218.24	8	.018	50.22	8	.108	237.86
9	.143	254.88	9	.127	50.91	9	.118	247.86
10	.112	254.14	10	.178	107.11	10	.074	250.58

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 26 ALPHA-MCL = 2.0 POP RUN.PI 7.05  
 RUN 7 ALPHA-BAR = 32.0 O-COMP = 32316  
 POINT 2 SIGMA = 135. V-REF = 199.36  
 COMPUTED FREQUENCY = 9.16, K = .0722  
 FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
X=.062	1	7.347	184.38	1	7.852	186.33	1	7.704	182.34	1	7.512	188.77	1	6.779	182.80	1	7.032	189.93
SUCTION	2	.244	29.39	2	.294	144.68	2	.206	229.92	2	.384	320.94	2	.103	119.08	2	.370	256.10
	3	.175	63.99	3	.085	52.14	3	.082	280.73	3	.216	260.18	3	.332	228.00	3	.101	189.87
	4	.072	279.51	4	.091	77.27	4	.055	226.72	4	.012	19.39	4	.033	357.23	4	.036	210.81
	5	.024	267.01	5	.051	264.58	5	.030	358.67	5	.086	117.33	5	.050	119.08	5	.027	136.92
	6	.034	351.28	6	.036	333.75	6	.033	81.61	6	.021	254.99	6	.077	46.16	6	.056	110.32
	7	.130	200.48	7	.095	104.10	7	.062	293.18	7	.021	334.52	7	.056	119.08	7	.027	136.92
	8	.054	296.22	8	.038	129.99	8	.053	128.93	8	.011	334.52	8	.010	145.13	8	.027	136.92
	9	.234	89.54	9	.036	196.61	9	.026	150.93	9	.015	336.15	9	.021	145.13	9	.024	289.22
	10	.021	315.22	10	.036	196.61	10	.026	150.93	10	.015	336.15	10	.021	145.13	10	.024	289.22
X=.012																		
PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	15.941	8.10	1	13.574	14.90	1	16.652	9.96	1	16.652	9.96	1	16.242	8.24	1	23.291	9.64
	2	.119	301.71	2	1.748	384.11	2	.218	259.07	2	.218	259.07	2	1.748	384.11	2	.291	201.71
	3	.117	160.18	3	.077	239.32	3	.125	259.07	3	.125	259.07	3	1.748	384.11	3	.291	201.71
	4	.112	103.16	4	.097	17.32	4	.019	37.37	4	.019	37.37	4	1.748	384.11	4	.291	201.71
	5	.091	16.11	5	.107	229.72	5	.077	17.32	5	.077	17.32	5	1.748	384.11	5	.291	201.71
	6	.054	325.57	6	.117	189.87	6	.077	17.32	6	.077	17.32	6	1.748	384.11	6	.291	201.71
	7	.042	287.37	7	.088	5.34	7	.072	277.53	7	.072	277.53	7	1.748	384.11	7	.291	201.71
	8	.095	220.52	8	.064	287.69	8	.033	95.18	8	.033	95.18	8	1.748	384.11	8	.291	201.71
	9	.037	105.25	9	.064	287.69	9	.033	95.18	9	.033	95.18	9	1.748	384.11	9	.291	201.71
	10	.037	105.25	10	.064	287.69	10	.033	95.18	10	.033	95.18	10	1.748	384.11	10	.291	201.71

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	M3			M4			M5			M750			M875			M938		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
GAP FRACTION	1	10.505	188.96	1	9.948	187.31	1	9.832	187.54	1	2.345	182.50	1	2.157	180.21	1	2.024	178.55
	2	.382	334.35	2	.395	342.55	2	.265	297.82	2	.296	316.62	2	.338	310.21	2	.622	178.55
	3	.031	129.67	3	.055	219.69	3	.159	116.48	3	.071	99.91	3	.063	104.16	3	.045	104.16
	4	.016	129.67	4	.223	249.73	4	.041	130.62	4	.035	109.08	4	.071	136.07	4	.050	143.28
	5	.035	235.80	5	.034	256.85	5	.054	172.06	5	.008	240.08	5	.033	250.76	5	.032	249.94
	6	.035	235.80	6	.034	256.85	6	.054	172.06	6	.008	240.08	6	.033	250.76	6	.032	249.94
	7	.035	235.80	7	.034	256.85	7	.054	172.06	7	.008	240.08	7	.033	250.76	7	.032	249.94
	8	.035	235.80	8	.034	256.85	8	.054	172.06	8	.008	240.08	8	.033	250.76	8	.032	249.94
	9	.035	235.80	9	.034	256.85	9	.054	172.06	9	.008	240.08	9	.033	250.76	9	.032	249.94
	10	.037	305.19	10	.014	337.22	10	.034	121.08	10	.006	295.54	10	.012	181.06	10	.006	237.64

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 28 ALPHA-MCL = 2.0 POP RUN-PT 7.08  
 RUN 7 ALPHA-HAR = 2.0 O-COMP = .32553  
 POINT 4 SIGMA = 155. V-REF = 200.10  
 COMPUTED FREQUENCY = 15.58, K = .1223

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE:005  
 SUCTION

9

7

6

5

N

N CPREAL CPIMAG  
 1 2.628-27.193  
 2 .321 - .348  
 3 -.245 1.689  
 4 .518 -.974  
 5 -.166 .028  
 6 .376 .537  
 7 .250 -.285  
 8 .251 -.316  
 9 .422 .398  
 10 -.018 -.007

XE:012  
 SUCTION

N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG  
 1-18.278 16.171 1 3.555-24.310 1 11.714 14.780 1-24.992 -3.006 1 16.038-13.527 1-12.005-15.480  
 2 -5.623 -.627 2 .986 5.565 2 1.270 .375 2 1.329 -.462 2 3.151 -.527 2 3.131 .952  
 3 -.247 -.625 3 .473 -.479 3 -.219 .066 3 .662 .441 3 -.555 1.151 .494  
 4 -.247 -.625 4 .397 -.654 4 .065 .065 4 .413 .662 .431  
 5 -.208 -.353 5 .501 -.410 5 .003 .003 5 .505 .140 .250  
 6 -.208 -.353 6 .401 -.410 6 .003 .003 6 .505 .140 .250  
 7 -.208 -.353 7 .401 -.410 7 .003 .003 7 .505 .140 .250  
 8 -.208 -.353 8 .401 -.410 8 .003 .003 8 .505 .140 .250  
 9 -.208 -.353 9 .401 -.410 9 .003 .003 9 .505 .140 .250  
 10 -.208 -.353 10 .401 -.410 10 .003 .003 10 .505 .140 .250

XE:030  
 SUCTION

N CPREAL CPIMAG  
 1 .785 -8.293  
 2 .119 -.279  
 3 .086 .113  
 4 -.027 .145  
 5 .020 .108  
 6 .009 .021  
 7 .051 .045  
 8 .034 .062  
 9 .041 .028  
 10 -.068 .016

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 28 ALPHA-MCL = 2.0 PCP RUN-PT 7.08  
 RUN 7 ALPHA-BAR = 2.0 Q-COMP = .32553  
 POINT 4 ALPHA-SIGMA = 135. V-REF = 200.10  
 COMPUTED FREQUENCY = 15.58, K = .1223

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	-5.541	5.316	1	.667	-7.387	1	5.217	5.915	1	-7.558	-5.571	1	6.268	-5.571	1	-9.613	-5.676
	2	-0.086	0.013	2	.058	-1.105	2	-0.005	0.003	2	-0.037	-0.027	2	-0.090	-0.027	2	-0.047	-0.062
	3	-0.028	0.033	3	.373	-1.444	3	-0.026	.149	3	-0.029	-0.027	3	-0.062	-0.030	3	-0.053	-0.016
	4	-0.018	0.029	4	.040	-0.117	4	-0.051	-0.011	4	-0.010	0.010	4	-0.010	0.050	4	-0.027	0.013
	5	-0.051	0.003	5	-0.051	-0.032	5	-0.006	0.045	5	-0.027	0.006	5	-0.030	0.013	5	-0.028	0.013
	6	-0.001	0.036	6	-0.051	-0.027	6	-0.052	0.044	6	-0.019	0.016	6	-0.016	0.013	6	-0.021	0.013
	7	-0.041	0.064	7	-0.014	-0.023	7	-0.007	0.002	7	-0.033	0.033	7	-0.020	0.013	7	-0.034	-0.046
	8	-0.061	0.019	8	-0.014	-0.046	8	-0.013	0.051	8	-0.008	-0.020	8	-0.007	0.004	8	-0.016	-0.020
	9	-0.055	0.061	9	-0.002	0.046	9	-0.004	0.011	9	-0.022	0.007	9	-0.007	0.027	9	-0.069	0.003
	10	0.005	0.130	10	-0.051	0.011	10	0.004	0.020	10	0.004	0.027	10	-0.082	0.027	10	0.003	0.003
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	11.789	-8.607	1	-7.161	-10.846	1	-7.161	10.846	1	16.038	3.027	1	-14.203	20.3	1	13.739	19.707
	2	-1.311	-0.697	2	-1.465	-0.869	2	-1.465	-0.869	2	-0.709	-1.943	2	-2.293	2.703	2	2.087	1.821
	3	0.086	0.143	3	-0.063	-0.059	3	-0.063	-0.059	3	-0.084	-0.089	3	-0.084	-0.089	3	2.087	-1.820
	4	0.008	0.116	4	-0.048	-0.055	4	-0.048	-0.055	4	-0.127	0.527	4	-0.127	0.527	4	1.160	1.936
	5	-0.054	0.051	5	-0.020	0.038	5	-0.020	0.038	5	-0.049	-0.079	5	-0.049	-0.079	5	0.223	0.933
	6	-0.001	0.048	6	-0.042	0.044	6	-0.042	0.044	6	-0.011	-0.045	6	-0.011	-0.045	6	0.003	0.304
	7	0.014	0.145	7	-0.026	0.044	7	-0.026	0.044	7	-0.025	-0.048	7	-0.025	-0.048	7	-0.022	0.216
	8	0.023	0.122	8	-0.011	-0.055	8	-0.011	-0.055	8	-0.021	-0.024	8	-0.021	-0.024	8	-0.024	0.216
	9	0.008	0.129	9	0.011	-0.028	9	-0.011	-0.028	9	-0.018	-0.011	9	-0.018	-0.011	9	-0.016	-0.080
	10	-0.017	-0.094	10	-0.085	-0.010	10	-0.085	-0.010	10	-0.018	-0.011	10	-0.018	-0.011	10	-0.080	-0.030

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W5 .250	W7 .750	W8 .875	W9 .938									
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1-10	660	-783	1-10	046	-2	623	517	11	1-2	932	108	1-2	308	684
2	550	-1.977	2	408	181	071	071	2	061	066	108	2	209	077
3	282	0.248	3	373	-2.336	-0.090	066	3	072	057	066	3	057	015
4	253	-0.011	4	-0.010	-2.129	-0.050	053	4	018	050	066	4	050	003
5	020	-0.089	5	-0.050	0.085	-0.012	034	5	008	027	066	5	027	003
6	058	0.026	6	-0.055	-2.085	-0.046	008	6	004	018	066	6	018	003
7	033	-0.008	7	-0.005	-2.027	-0.028	004	7	001	002	066	7	002	003
8	010	0.051	8	-0.010	-2.021	-0.028	004	8	000	001	066	8	001	003
9	010	0.051	9	-0.010	-2.021	-0.028	004	9	006	007	066	9	007	003
10	026	0.057	10	-0.028	-2.021	-0.028	004	10	006	007	066	10	007	003



SCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 28 ALPHA-MCL = 2.0 POP RUN-PT 7.08  
PUN 27 ALPHA-BAR = 3.0 Q-COMP = .32553  
POINT 4 SIGMA = 135.0 V-REF = 200.10  
COMPUTED FREQUENCY = 15.58, K = .1223

FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE:005  
SUCTION

9

7

6

5

4

N	CP-MAG	PHI
1	27.320	185.52
2	.476	132.96
3	1.706	188.27
4	1.103	198.00
5	.168	80.53
6	.656	305.01
7	.373	41.23
8	.403	308.77
9	.580	46.71
10	.029	21.02

XE:012  
SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	24.405	183.50	1	18.860	186.60	1	25.173	186.86	1	19.599	187.21	1	19.599	187.21
2	5.657	276.36	2	1.325	286.43	2	.914	235.02	2	3.273	286.92	2	3.273	286.92
3	1.083	279.42	3	1.118	298.92	3	.795	301.94	3	1.702	286.92	3	1.702	286.92
4	.672	291.57	4	.228	343.46	4	.780	38.07	4	1.02	115.75	4	1.02	115.75
5	.405	19.01	5	.117	41.06	5	.672	38.07	5	1.527	122.4	5	1.527	122.4
6	.211	69.02	6	.059	266.19	6	.060	50.05	6	1.527	122.4	6	1.527	122.4
7	.308	121.25	7	.171	115.85	7	.383	163.05	7	1.527	122.4	7	1.527	122.4
8	.540	131.62	8	.175	170.87	8	.154	171.87	8	1.527	122.4	8	1.527	122.4
9	.216	335.62	9	.194	256.09	9	.263	163.33	9	1.527	122.4	9	1.527	122.4
10	.480	124.79	10	.125	331.49	10	.263	163.33	10	1.527	122.4	10	1.527	122.4

XE:030  
SUCTION

N	CP-MAG	PHI
1	8.331	185.41
2	.301	113.39
3	.142	142.71
4	.147	100.61
5	.110	190.35
6	.023	112.80
7	.068	228.49
8	.071	201.09
9	.050	204.23
10	.070	346.93

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 28 ALPHA-MCL = 2.0 PDP RUN-PT 7.08  
 RUN 7 ALPHA-BAR = 2.0 D-COMP = 3553  
 POINT 4 SIGMA = 135. REF = 200.10  
 COMPUTED FREQUENCY = 15.58, K = .1223

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	1	4	5	6	7	9
X=.032 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	7.678 181.19	7.417 185.16	7.687 183.59	7.560 184.22	7.393 183.25	7.314 185.90
2	.087 261.45	.125 123.01	.006 160.20	.065 127.02	.093 158.68	.091 112.71
3	.097 207.98	.161 153.19	.151 144.08	.065 116.59	.068 150.49	.082 125.91
4	.034 57.96	.043 136.24	.052 217.06	.030 123.61	.030 201.49	.055 209.50
5	.032 221.87	.034 65.68	.048 210.30	.025 41.47	.025 111.99	.032 116.50
6	.036 192.61	.060 147.87	.058 209.86	.025 232.86	.025 229.08	.025 119.30
7	.064 197.24	.051 235.51	.053 255.51	.054 232.86	.051 16.57	.051 133.85
8	.083 357.53	.046 356.57	.011 49.93	.009 145.86	.008 251.85	.025 133.85
9	.130 177.75	.052 347.73	.021 348.01	.027 142.56	.008 251.85	.025 133.85
10						.069 87.84
X=.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	14.597 8.87	12.997 11.57	16.321 10.69	18.551 9.97	20.551 9.97	20.551 9.97
2	1.485 294.01	1.578 256.66	2.069 229.61	3.261 190.05	3.261 190.05	3.261 190.05
3	.167 193.78	.074 173.51	.138 157.58	1.282 133.56	1.282 133.56	1.282 133.56
4	.116 178.50	.043 109.67	.082 53.96	.401 261.06	.401 261.06	.401 261.06
5	.074 178.50	.058 109.67	.082 53.96	.401 261.06	.401 261.06	.401 261.06
6	.074 178.50	.064 109.67	.082 53.96	.401 261.06	.401 261.06	.401 261.06
7	.124 138.36	.061 244.58	.054 200.62	.032 210.62	.032 210.62	.032 210.62
8	.129 138.36	.061 244.58	.054 200.62	.032 210.62	.032 210.62	.032 210.62
9	.095 349.52	.085 296.72	.021 213.14	.021 213.14	.021 213.14	.021 213.14
10						.085 110.34

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 CP-MAG PHI	W4 CP-MAG PHI	W5 CP-MAG PHI	W7 CP-MAG PHI	W8 CP-MAG PHI	W9 CP-MAG PHI
1	10.852 184.20	10.056 182.52	5.011 179.74	2.674 168.85	2.507 165.91	2.322 167.07
2	.052 285.56	.442 32.32	.106 265.41	.110 49.94	.058 39.84	.101 49.94
3	.054 191.95	.130 13.41	.087 127.06	.065 194.61	.072 131.23	.059 194.61
4	.052 256.16	.177 120.61	.017 103.66	.021 157.53	.032 161.01	.049 155.25
5	.056 189.27	.099 128.70	.063 147.54	.008 248.28	.052 161.01	.049 155.25
6	.079 189.27	.062 205.42	.017 121.69	.034 166.25	.052 161.01	.049 155.25
7	.079 189.27	.062 205.42	.017 121.69	.034 166.25	.052 161.01	.049 155.25
8	.079 189.27	.062 205.42	.017 121.69	.034 166.25	.052 161.01	.049 155.25
9	.079 189.27	.062 205.42	.017 121.69	.034 166.25	.052 161.01	.049 155.25
10	.063 114.83	.059 158.77	.031 153.12	.021 173.67	.039 159.28	.027 126.41

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 31 ALPHA-MCL = 2.0 POP RUN.PT 7.11  
RUN 7 ALPHA-BAR = 2.0 U-COMP = .32722  
POINT 7 SIGMA = 135. V-REF = 200.62  
COMPUTED FREQUENCY = 19.31, K = .1512

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

N	CPREAL	CPIMAG
1	2.097	-27.280
2	.170	-.310
3	-.118	1.456
4	.430	-.967
5	-.137	.172
6	-.531	.554
7	.341	-.345
8	-.166	-.249
9	-.368	.305
10	.031	.047

X=.012  
SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-17.638	16.127	1	3.117	-24.444	1	11.935	14.393	1	15.654	-13.769
2	-5.531	-.367	2	-.921	5.498	2	1.253	-.246	2	-3.016	-.921
3	-.936	-1.104	3	.494	-.739	3	-.136	-.034	3	.509	-.940
4	-.172	.442	4	.292	-.797	4	-.252	.069	4	.147	-.621
5	-.855	.377	5	-.403	.837	5	-.716	.114	5	-.233	-.132
6	-.326	-.188	6	.134	-.358	6	-.040	.019	6	.169	.034
7	-.006	.168	7	.014	-.008	7	-.076	.028	7	-.086	.064
8	-.068	.314	8	-.187	.159	8	-.158	.095	8	.061	.157
9	-.120	-.119	9	-.044	-.110	9	-.003	.161	9	-.128	-.083
10	.252	-.026	10	-.044	-.004	10	.105	.050	10	-.113	-.037

X=.030  
SUCTION

N	CPREAL	CPIMAG
1	.579	-8.340
2	.118	-.372
3	.041	.016
4	-.014	.131
5	-.012	-.090
6	-.059	.027
7	-.006	.030
8	-.004	.004
9	-.019	-.033
10	-.041	.046

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 31 ALPHA-MCL = 2.0 PDP RUN.PI 7.11  
 RUN 7 ALPHA-BAR = 2.0 Q-COMP = 32722  
 POINT 7 SIGMA = 135. V-REF = 200.62  
 COMPUTED FREQUENCY = 19.31, K = .1512

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.062 SUCTION	5										6										7										9									
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG				
1	5	516	5.262	1	510	-7.472	1	5.194	5.772	1	-7.620	-.557	1	9.128	-5.762	1	9.128	-5.762	1	9.128	-5.762	1	9.128	-5.762	1	9.128	-5.762	1	9.128	-5.762	1	9.128	-5.762	1	9.128	-5.762				
2	5	516	5.262	2	510	-7.472	2	5.194	5.772	2	7.620	-.557	2	9.128	-5.762	2	9.128	-5.762	2	9.128	-5.762	2	9.128	-5.762	2	9.128	-5.762	2	9.128	-5.762	2	9.128	-5.762	2	9.128	-5.762				
3	5	516	5.262	3	510	-7.472	3	5.194	5.772	3	7.620	-.557	3	9.128	-5.762	3	9.128	-5.762	3	9.128	-5.762	3	9.128	-5.762	3	9.128	-5.762	3	9.128	-5.762	3	9.128	-5.762	3	9.128	-5.762				
4	5	516	5.262	4	510	-7.472	4	5.194	5.772	4	7.620	-.557	4	9.128	-5.762	4	9.128	-5.762	4	9.128	-5.762	4	9.128	-5.762	4	9.128	-5.762	4	9.128	-5.762	4	9.128	-5.762	4	9.128	-5.762				
5	5	516	5.262	5	510	-7.472	5	5.194	5.772	5	7.620	-.557	5	9.128	-5.762	5	9.128	-5.762	5	9.128	-5.762	5	9.128	-5.762	5	9.128	-5.762	5	9.128	-5.762	5	9.128	-5.762	5	9.128	-5.762				
6	5	516	5.262	6	510	-7.472	6	5.194	5.772	6	7.620	-.557	6	9.128	-5.762	6	9.128	-5.762	6	9.128	-5.762	6	9.128	-5.762	6	9.128	-5.762	6	9.128	-5.762	6	9.128	-5.762	6	9.128	-5.762				
7	5	516	5.262	7	510	-7.472	7	5.194	5.772	7	7.620	-.557	7	9.128	-5.762	7	9.128	-5.762	7	9.128	-5.762	7	9.128	-5.762	7	9.128	-5.762	7	9.128	-5.762	7	9.128	-5.762	7	9.128	-5.762				
8	5	516	5.262	8	510	-7.472	8	5.194	5.772	8	7.620	-.557	8	9.128	-5.762	8	9.128	-5.762	8	9.128	-5.762	8	9.128	-5.762	8	9.128	-5.762	8	9.128	-5.762	8	9.128	-5.762	8	9.128	-5.762				
9	5	516	5.262	9	510	-7.472	9	5.194	5.772	9	7.620	-.557	9	9.128	-5.762	9	9.128	-5.762	9	9.128	-5.762	9	9.128	-5.762	9	9.128	-5.762	9	9.128	-5.762	9	9.128	-5.762	9	9.128	-5.762				
10	5	516	5.262	10	510	-7.472	10	5.194	5.772	10	7.620	-.557	10	9.128	-5.762	10	9.128	-5.762	10	9.128	-5.762	10	9.128	-5.762	10	9.128	-5.762	10	9.128	-5.762	10	9.128	-5.762	10	9.128	-5.762				

X=.012 PRESSURE	8										7										6										5										4									
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG														
1	11	307	-8.707	1	15.414	-10.857	1	-7.452	-10.857	1	15.954	2.673	1	-13.907	11.893	1	-13.907	11.893	1	-13.907	11.893	1	-13.907	11.893	1	-13.907	11.893	1	-13.907	11.893	1	-13.907	11.893	1	-13.907	11.893														
2	11	307	-8.707	2	15.414	-10.857	2	-7.452	-10.857	2	15.954	2.673	2	-13.907	11.893	2	-13.907	11.893	2	-13.907	11.893	2	-13.907	11.893	2	-13.907	11.893	2	-13.907	11.893	2	-13.907	11.893	2	-13.907	11.893														
3	11	307	-8.707	3	15.414	-10.857	3	-7.452	-10.857	3	15.954	2.673	3	-13.907	11.893	3	-13.907	11.893	3	-13.907	11.893	3	-13.907	11.893	3	-13.907	11.893	3	-13.907	11.893	3	-13.907	11.893	3	-13.907	11.893														
4	11	307	-8.707	4	15.414	-10.857	4	-7.452	-10.857	4	15.954	2.673	4	-13.907	11.893	4	-13.907	11.893	4	-13.907	11.893	4	-13.907	11.893	4	-13.907	11.893	4	-13.907	11.893	4	-13.907	11.893	4	-13.907	11.893														
5	11	307	-8.707	5	15.414	-10.857	5	-7.452	-10.857	5	15.954	2.673	5	-13.907	11.893	5	-13.907	11.893	5	-13.907	11.893	5	-13.907	11.893	5	-13.907	11.893	5	-13.907	11.893	5	-13.907	11.893	5	-13.907	11.893														
6	11	307	-8.707	6	15.414	-10.857	6	-7.452	-10.857	6	15.954	2.673	6	-13.907	11.893	6	-13.907	11.893	6	-13.907	11.893	6	-13.907	11.893	6	-13.907	11.893	6	-13.907	11.893	6	-13.907	11.893	6	-13.907	11.893														
7	11	307	-8.707	7	15.414	-10.857	7	-7.452	-10.857	7	15.954	2.673	7	-13.907	11.893	7	-13.907	11.893	7	-13.907	11.893	7	-13.907	11.893	7	-13.907	11.893	7	-13.907	11.893	7	-13.907	11.893	7	-13.907	11.893														
8	11	307	-8.707	8	15.414	-10.857	8	-7.452	-10.857	8	15.954	2.673	8	-13.907	11.893	8	-13.907	11.893	8	-13.907	11.893	8	-13.907	11.893	8	-13.907	11.893	8	-13.907	11.893	8	-13.907	11.893	8	-13.907	11.893														
9	11	307	-8.707	9	15.414	-10.857	9	-7.452	-10.857	9	15.954	2.673	9	-13.907	11.893	9	-13.907	11.893	9	-13.907	11.893	9	-13.907	11.893	9	-13.907	11.893	9	-13.907	11.893	9	-13.907	11.893	9	-13.907	11.893														
10	11	307	-8.707	10	15.414	-10.857	10	-7.452	-10.857	10	15.954	2.673	10	-13.907	11.893	10	-13.907	11.893	10	-13.907	11.893	10	-13.907	11.893	10	-13.907	11.893	10	-13.907	11.893	10	-13.907	11.893	10	-13.907	11.893														

X=.012  
PRESSURE

X=.012 PRESSURE	5										6										7										9									
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG				
1	11	307	-8.707	1	7.452	-10.855	1	15.955	2.673	1	15.955	2.673	1	13	902	11.831	1	13	902	11.831	1	13	902	11.831	1	13	902	11.831	1	13	902	11.831	1	13	902	11.831				
2	11	307	-8.707	2	7.452	-10.855	2	15.955	2.673	2	15.955	2.673	2	13	902	11.831	2	13	902	11.831	2	13	902	11.831	2	13	902	11.831	2	13	902	11.831	2	13	902	11.831				
3	11	307	-8.707	3	7.452	-10.855	3	15.955	2.673	3	15.955	2.673	3	13	902	11.831	3	13	902	11.831	3	13	902	11.831	3	13	902	11.831	3	13	902	11.831	3	13	902	11.831				
4	11	307	-8.707	4	7.452	-10.855	4	15.955	2.673	4	15.955	2.673	4	13	902	11.831	4	13	902	11.831	4	13	902	11.831	4	13	902	11.831	4	13	902	11.831	4	13	902	11.831				
5	11	307	-8.707	5	7.452	-10.855	5	15.955	2.673	5	15.955	2.673	5	13	902	11.831	5	13	902	11.831	5	13	902	11.831	5	13	902	11.831	5	13	902	11.831	5	13	902	11.831				
6	11	307	-8.707	6	7.452	-10.855	6	15.955	2.673	6	15.955	2.673	6	13	902	11.831	6	13	902	11.831	6	13	902	11.831	6	13	902	11.831	6	13	902	11.831	6	13	902	11.831				
7	11	307	-8.707	7	7.452	-10.855	7	15.955	2.673	7	15.955	2.673	7	13	902	11.831	7	13	902	11.831	7	13	902	11.831	7	13	902	11.831	7	13	902	11.831	7	13	902	11.831				
8	11	307	-8.707	8	7.452	-10.855	8	15.955	2.673	8	15.955	2.673	8	13	902	11.831	8	13	902	11.831	8	13	902	11.831	8	13	902	11.831	8	13	902	11.831	8	13	902	11.831				
9	11	307	-8.707	9	7.452	-10.855	9	15.955	2.673	9	15.955	2.673	9	13	902	11.831	9	13	902	11.831	9	13	902	11.831	9	13	902	11.831	9	13	902	11.831	9	13	902	11.831				
10	11	307	-8.707	10	7.452	-10.855	10	15.955	2.673	10	15.955	2.673	10	13	902	11.831	10	13	902	11.831	10	13	902	11.831	10	13	902	11.831	10	13	902	11.831	10	13	902	11.831				

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. W3  
GAP FRACTION .062

W3 GAP FRACTION .062			W4			W5			W6			W7					
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	10	495	1	10	011	1	10	011	1	10	011	1	10	011	1	10	011
2	10	495	2	10	011	2	10	011	2	10	011	2	10	011	2	10	011
3	10	495	3	10	011	3	10	011	3	10	011	3	10	011	3	10	011
4	10	495	4	10	011	4	10	011	4	10	011	4	10	011	4	10	011
5	10	495	5	10	011	5	10	011	5	10	011	5	10	011	5	10	011
6	10	495	6	10	011	6	10	011	6	10	011	6	10	011	6	10	011
7	10	495	7	10	011	7	10	011	7	10	011	7	10	011	7	10	011
8	10	495	8	10	011	8	10	011	8	10	011	8	10	011	8	10	011
9	10	495	9	10	011	9	10	011	9	10	011	9	10	011	9	10	011
10	10	495	10	10	011	10	10	011	10	10	011	10	10	011	10	10	011

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 31 ALPHA-MCL = 2.0 POP RUN.PT 7.11  
RUN 7 ALPHA-BAR = 2.0 O-COMP = 32722  
POINT 7 SIGMA = 135. V-REF = 200.62  
COMPUTED FREQUENCY = 19.31, K = .1512

FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

N	CP-MAG	PHI
1	27.361	184.40
2	.334	118.74
3	1.460	184.63
4	1.059	293.97
5	.220	38.51
6	.768	313.79
7	.485	44.65
8	.299	303.50
9	.478	50.37
10	.057	236.85

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	23.900	182.56	1	18.698	185.33	1	24.760	185.99	1	19.459	186.05
2	5.543	273.80	2	1.277	239.07	2	.733	284.71	2	1.213	288.33
3	1.474	291.25	3	.849	290.13	3	.709	293.62	3	1.242	327.49
4	.934	291.25	4	.829	290.13	4	.808	307.78	4	1.658	327.49
5	.377	120.20	5	.929	290.13	5	.674	49.99	5	.329	327.49
6	.068	102.38	6	.411	108.96	6	.209	307.98	6	.087	250.12
7	.321	102.38	7	.016	61.09	7	.384	51.88	7	.087	250.12
8	.169	269.83	8	.261	133.56	8	.173	139.08	8	.227	336.98
9	.253	284.09	9	.135	215.52	9	.263	167.25	9	.227	336.98
10			10	.045	5.36	10	.256	167.25	10	.149	171.19

X=.030  
SUCTION

N	CP-MAG	PHI
1	8.360	183.97
2	.324	111.31
3	.044	111.31
4	.091	96.17
5	.065	187.22
6	.031	192.04
7	.006	138.37
8	.038	210.51
9	.062	311.55
10		

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 31 ALPHA-MC = 2.0 POP RUN PI 7.11  
 RUN POINT 7 ALPHA-MC = 32722  
 COMPUTED FREQUENCY = 19.31, K = .1512  
 FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	7.637 181.25	7.490 183.91	7.765 183.02	7.641 184.18	8.412 181.77	7.387 185.84
2	.003 237.11	.045 125.57	.092 196.37	.071 207.81	.065 209.30	.178 232.36
3	.029 358.99	.055 138.99	.063 197.40	.069 208.29	.147 209.94	.178 232.36
4	.061 151.84	.048 25.70	.070 197.40	.069 208.29	.031 237.25	.026 238.35
5	.037 282.54	.075 172.55	.019 284.40	.029 250.98	.025 237.25	.034 238.35
6	.047 184.40	.010 338.23	.024 321.61	.033 309.15	.022 312.94	.070 238.35
7	.111 44.11	.022 327.43	.015 187.60	.035 309.15	.148 309.15	.070 238.35
8	.090 353.40	.068 320.16	.047 187.60	.032 309.15	.087 309.15	.022 220.88
9	.099 109.62					.060 220.88
10	.107 109.62					
X=012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	14.271 7.40	13.167 10.53	16.177 16.17	18.255 30.60	19.255 30.60	23.901 9.04
2	1.670 294.99	1.568 263.38	2.067 288.27	2.943 305.38	3.943 305.38	9.959 281.27
3	.227 199.76	.074 166.08	.202 216.29	1.720 225.41	1.720 225.41	2.288 202.61
4	.156 312.47	.050 127.08	.146 111.54	.311 145.79	.311 145.79	2.288 202.61
5	.080 313.24	.066 151.05	.087 147.57	.346 147.57	.346 147.57	.748 127.68
6	.074 342.18	.042 150.56	.091 147.57	.118 271.86	.118 271.86	.197 127.68
7	.172 217.82	.023 130.36	.064 147.57	.109 271.86	.109 271.86	.235 127.68
8	.179 217.82	.010 34.18	.028 166.09	.129 341.92	.129 341.92	.235 127.68
9	.096 272.66					.175 67.64
10	.088 272.66					

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO GAP FRACTION	W3 062	W4 125	W5 250	W7 750	W9 938
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	10.517 183.72	10.020 182.54	5.097 180.74	2.577 175.63	2.943 168.73
2	1.964 285.51	.374 16.57	.511 197.24	.168 274.54	.099 289.08
3	.247 221.37	.091 295.91	.079 190.34	.095 307.80	.034 336.77
4	.021 192.01	.045 224.60	.052 215.02	.040 250.94	.030 336.77
5	.096 311.86	.009 314.68	.028 322.07	.027 357.28	.018 336.77
6	.100 311.86	.020 351.45	.017 322.07	.034 357.28	.018 336.77
7	.032 113.36	.049 47.23	.023 102.10	.034 110.28	.036 128.18
8	.034 69.32	.013 261.63	.021 324.89	.022 100.06	.029 128.18
9	.066 260.04				.029 128.18
10					

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 40 ALPHA-MCL = 2.0 POP RUN.PT 9.11  
 RUN 9 ALPHA-BAR = 2.0 O-COMP = .32529  
 POINT 2 SIGMA = 180. V-REF = 199.99  
 COMPUTED FREQUENCY = 9.17, K = .0720

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=000  
 SUCTION

N	CPREAL	CPIMAG
1	28.374	1.275
2	.170	.875
3	-1.502	.565
4	-.199	-.813
5	.115	-.048
6	-.246	-.772
7	.454	-.208
8	-.178	-.398
9	.417	-.208
10	-.067	.029

X=012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	24.433	-.922	1	24.433	-.922	1	24.433	-.922	1	24.433	-.922
2	-.615	-.193	2	-.615	-.193	2	-.615	-.193	2	-.615	-.193
3	-.240	-.703	3	-.240	-.703	3	-.240	-.703	3	-.240	-.703
4	-.749	-.295	4	-.749	-.295	4	-.749	-.295	4	-.749	-.295
5	-.133	.057	5	-.133	.057	5	-.133	.057	5	-.133	.057
6	-.330	.149	6	-.330	.149	6	-.330	.149	6	-.330	.149
7	-.284	.237	7	-.284	.237	7	-.284	.237	7	-.284	.237
8	-.108	-.125	8	-.108	-.125	8	-.108	-.125	8	-.108	-.125
9	-.126	.226	9	-.126	.226	9	-.126	.226	9	-.126	.226
10			10			10			10		

X=030  
 SUCTION

N	CPREAL	CPIMAG
1	5.873	.300
2	-.401	.079
3	-.136	-.149
4	-.017	.158
5	-.116	.102
6	-.047	-.008
7	.005	.024
8	.012	.028
9	-.002	.008
10	.026	.003

9

7

6

5

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 40 ALPHA-MCL = 2.0 POP RUN.PT 9.11  
 RUN 9 ALPHA-BAR = 2.0 O-COMP = .32529  
 POINT 2 SIGMA = 180. V-REF = 199.99  
 COMPUTED FREQUENCY = 9.17, K = .0720

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	7.798	-.213	1	7.421	.014	1	7.797	-.313	1	-7.707	.179	1	8.164	-.327	1	7.161	-.310
	2	-.035	.242	2	.006	.316	2	.008	-.278	2	.031	.205	2	-.008	.066	2	.098	.126
	3	.321	.076	3	.100	.130	3	.341	-.067	3	.031	.205	3	-.008	.066	3	.098	.126
	4	-.060	.011	4	-.050	.130	4	-.059	-.060	4	-.179	.049	4	-.121	.055	4	-.179	.055
	5	.108	.117	5	.117	.023	5	.140	.020	5	-.067	.046	5	.047	.042	5	-.169	-.031
	6	.057	.028	6	.036	-.032	6	.027	-.032	6	.033	.009	6	.043	.030	6	.037	.049
	7	.029	.038	7	.009	-.035	7	.014	-.018	7	.012	.054	7	-.031	.024	7	-.024	-.021
	8	.041	.006	8	.012	-.022	8	.012	-.027	8	.006	.018	8	-.009	.025	8	-.024	-.021
	9	-.002	.074	9	.001	-.022	9	-.012	-.033	9	.002	.008	9	-.009	.025	9	-.012	-.018
	10	-.000	.007	10	-.004	.019	10	.012	.033	10	-.009	.008	10	.011	.014	10	-.010	.010
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	14.792	-.204	1	13.592	-.160	1	16.870	-.274	1	20.050	1.547	1	23.570	1.547	1	23.570	1.547
	2	.034	-.067	2	.165	-.186	2	.363	-.358	2	-.363	.358	2	1.401	1.562	2	1.401	1.562
	3	.273	.022	3	.376	-.169	3	.044	.097	3	-.044	.097	3	1.801	1.923	3	1.801	1.923
	4	.116	.013	4	.165	.071	4	.066	.156	4	-.066	.156	4	.735	.273	4	.735	.273
	5	.113	.013	5	.050	.007	5	.162	.018	5	.162	.018	5	.244	.438	5	.244	.438
	6	.025	.032	6	.011	-.077	6	.000	.065	6	.000	.065	6	.126	.035	6	.126	.035
	7	.002	.003	7	.025	-.043	7	.047	.011	7	.047	.011	7	.063	.019	7	.063	.019
	8	.046	.006	8	.001	-.026	8	.010	.043	8	.010	.043	8	.126	.120	8	.126	.120
	9	.001	.006	9	.023	-.013	9	.010	.003	9	.010	.003	9	.068	.191	9	.068	.191
	10	-.040	-.022	10	.006	-.007	10	.029	.021	10	.029	.021	10	.068	.191	10	.065	.003

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. AP FRACTION	W3	W4	W5	W7	W8	W9					
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1-10	.679	-.453	1-10	.040	-.217	1-5	.113	-.024	1-2	.696	-.179
2	-.196	-.152	2	-.152	-.061	2	-.077	-.326	2	-.066	-.154
3	.590	.061	3	.680	.061	3	.332	-.114	3	.426	.053
4	.061	.025	4	.066	.037	4	.033	.089	4	.116	.091
5	.056	.034	5	.331	.080	5	.041	.052	5	.163	.093
6	.020	.018	6	.012	.038	6	.027	-.066	6	.022	.049
7	-.005	-.083	7	-.002	-.083	7	.033	-.035	7	.049	.049
8	.016	-.041	8	.050	-.061	8	.018	-.045	8	.004	.005
9	.001	-.013	9	.009	-.007	9	.015	.006	9	.010	.013
10			10			10			10		



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 40 ALPHA-MCL = 2.0 PDP RUN.PT 9.11  
 RUN 9 ALPHA-BAR = 2.0 Q-COMP = .32529  
 POINT 2 SIGMA = 180. V-REF = 199.99  
 COMPUTED FREQUENCY = 9.17. K = .0720

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

N CP-MAG PHI  
 1 28.403 177.83  
 2 .892 179.02  
 3 1.605 159.38  
 4 .837 256.25  
 5 .124 222.67  
 6 .811 252.30  
 7 .499 335.36  
 8 .437 245.92  
 9 .466 333.55  
 10 .073 156.60

X=C12  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	24.450	177.84	1	19.153	178.71	1	25.339	177.25	1	21.110	177.59	1	19.267	177.20
2	.865	262.74	2	.157	282.14	2	.363	264.02	2	1.115	263.70	2	.920	265.11
3	.625	342.02	3	.156	103.46	3	.834	336.3	3	1.062	343.14	3	.851	342.14
4	.743	328.48	4	.123	179.21	4	.762	347.98	4	.843	355.97	4	.012	342.40
5	.805	328.48	5	.106	85.79	5	.484	343.75	5	.443	371.53	5	.340	348.86
6	.362	335.69	6	.109	305.54	6	.483	331.79	6	.092	261.50	6	.320	348.52
7	.370	39.90	7	.255	67.12	7	.107	32.45	7	.131	263.35	7	.213	194.41
8	.166	49.24	8	.248	144.97	8	.205	316.40	8	.193	344.08	8	.071	258.58
9	.258	60.92	9	.117	227.96	9	.219	42.07	9	.164	56.35	9	.051	226.88
10			10			10			10			10		

X=C20  
 SUCTION

N	CP-MAG	PHI
1	5.880	177.07
2	.409	168.93
3	.202	312.30
4	.159	96.06
5	.154	138.77
6	.048	189.89
7	.024	178.75
8	.030	67.41
9	.008	106.01
10	.026	6.46

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE NO 9 ALPHA-MCL = 2.0 POP RUN-PT 9.11  
 RUN POINT 2 ALPHA-BAR = 2.0 Q-COMP = 32529  
 SIGMA = 180. V-REF = 199.99  
 COMPUTED FREQUENCY = 9.17, K = .0720  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

ELADE NO.	1	5	6	7	9
X=062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	7.801 178.43	1 7.421 179.89	1 7.803 177.70	1 7.709 178.67	1 7.169 177.36
2	7.284 198.28	2 7.316 188.83	2 7.282 180.29	2 7.207 181.83	2 7.134 180.19
3	7.321 128.27	3 7.162 153.26	3 7.347 158.82	3 7.196 153.69	3 7.121 150.93
4	7.108 185.64	4 7.120 163.62	4 7.084 168.72	4 7.080 163.52	4 7.062 160.23
5	7.064 333.44	5 7.036 357.73	5 7.042 389.29	5 7.034 385.54	5 7.049 380.94
6	7.048 121.52	6 7.037 137.88	6 7.045 138.88	6 7.021 135.72	6 7.012 126.95
7	7.042 351.64	7 7.037 289.14	7 7.045 288.48	7 7.021 276.41	7 7.012 269.55
8	7.074 88.79	8 7.022 272.73	8 7.042 40.48	8 7.018 277.40	8 7.012 272.77
9	7.007 93.33	9 7.019 103.59	9 7.035 70.37	9 7.012 222.40	9 7.010 217.17
10		10		10	
X=012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	14.793 359.21	1 13.593 359.33	1 16.900 357.03	1 24.109 355.59	1 23.585 350.24
2	1.629 271.21	2 1.862 264.90	2 2.385 261.73	2 2.679 266.94	2 3.197 268.53
3	1.116 169.47	3 1.412 204.28	3 1.706 214.73	3 1.804 217.64	3 1.964 219.93
4	1.113 186.70	4 1.180 156.64	4 1.170 112.78	4 1.174 109.58	4 1.122 109.23
5	1.041 223.62	5 1.051 187.92	5 1.065 176.20	5 1.030 170.58	5 1.058 172.18
6	1.046 186.95	6 1.050 220.22	6 1.043 193.20	6 1.066 192.98	6 1.050 190.02
7	1.046 259.33	7 1.026 230.51	7 1.041 217.66	7 1.066 216.48	7 1.049 214.59
8	1.045 208.46	8 1.037 279.29	8 1.036 35.73	8 1.033 35.73	8 1.065 35.06
10		10		10	

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	3	125	250	750	875	938
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	10.689 177.57	1 10.042 178.76	1 5.113 180.27	1 2.894 183.65	1 2.702 183.79	1 2.562 183.47
2	1.512 267.38	2 1.981 265.55	2 3.351 256.80	2 1.169 259.02	2 1.168 259.02	2 1.157 259.02
3	1.594 157.35	3 2.493 153.30	3 1.152 129.00	3 1.389 129.00	3 1.477 129.00	3 1.571 129.00
4	1.063 155.13	4 1.341 133.67	4 1.152 122.00	4 1.179 122.00	4 1.168 122.00	4 1.150 122.00
5	1.066 328.49	5 1.111 287.67	5 1.096 292.02	5 1.033 292.02	5 1.043 292.02	5 1.038 292.02
6	1.066 118.73	6 1.043 288.82	6 1.072 290.15	6 1.047 290.15	6 1.050 290.15	6 1.052 290.15
7	1.083 291.73	7 1.079 302.53	7 1.031 301.91	7 1.014 301.91	7 1.016 301.91	7 1.015 301.91
8	1.044 275.76	8 1.012 275.76	8 1.016 275.76	8 1.010 275.76	8 1.010 275.76	8 1.010 275.76
10		10		10		10

MODE 2 --- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 42 ALPHA-MCL = 2.0 PDP RUN.PT 9.21  
 RUN 9 ALPHA-BAR = 2.0 O-COMP = .32359  
 POINT 4 SIGMA = 180. V-REF = 199.46  
 COMPUTED FREQUENCY = 15.46, K = .1218

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

N	CPREAL	CPIMAG
1	28.032	2.253
2	-1.366	.946
3	-1.999	.484
4	-.021	-.799
5	-.021	.031
6	-.293	-.762
7	-.503	-.155
8	-.192	-.237
9	-.248	-.195
10	-.155	-.006

X=.012  
 SUCTION

N	CPREAL	CPIMAG
1	24.757	-1.197
2	-.650	-.497
3	-.260	-.171
4	-.698	.171
5	-.109	.245
6	-.286	.245
7	-.191	.117
8	-.035	-.134
9	-.027	-.134
10		

X=.030  
 SUCTION

N	CPREAL	CPIMAG
1	-7.827	.463
2	.018	.329
3	.011	-.028
4	.141	-.027
5	-.122	.074
6	.014	.039
7	.071	.003
8	.048	.012
9	.039	.040
10	-.051	.030

9

7

6

5

3

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	21.939	-1.258	1	19.187	-1.381	1	19.187	-1.381
2	-1.592	-.284	2	-1.481	-.036	2	-1.481	-.036
3	-.089	.799	3	-1.104	.151	3	-1.104	.151
4	.355	-.027	4	.071	-.023	4	.071	-.023
5	.184	.047	5	.157	-.082	5	.157	-.082
6	-.089	-.354	6	.125	-.243	6	.125	-.243
7	-.179	-.011	7	-.061	-.029	7	-.061	-.029
8	-.003	.109	8	-.049		8	-.049	
9			9			9		
10			10			10		

# OCUT PERIODICITY TEST MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE #2 ALPHA-MCL = 2.0 PDP RUN-PT 9.21  
 RUN #6 ALPHA-BAR = 2.0 O-COMP = 13359  
 POINT #4 SIGMA = 180. V-REF = 199.46  
 COMPUTED FREQUENCY = 15.46, K = .1218

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.062  
 SUCTION

	1	2	3	4	5	6	7	9
N	1	2	3	4	5	6	7	9
CPREAL	7.913	-.068	-.011	-.027	-.021	-.047	-.0415	7.312
CPIMAG	-.139	-.185	-.009	-.014	-.002	-.008	-.062	-.078
N	1	2	3	4	5	6	7	9
CPREAL	-.341	-.000	-.092	-.045	-.007	-.032	-.003	-.002
CPIMAG	-.287	-.022	-.016	-.005	-.027	-.040	-.077	-.019
N	1	2	3	4	5	6	7	9
CPREAL	8.012	-.016	-.038	-.034	-.081	-.021	-.007	8.016
CPIMAG	-.233	-.144	-.023	-.022	-.024	-.026	-.061	-.020
N	1	2	3	4	5	6	7	9
CPREAL	7.630	-.026	-.024	-.075	-.041	-.071	-.052	7.009
CPIMAG	-.501	-.105	-.104	-.053	-.016	-.041	-.000	-.035
N	1	2	3	4	5	6	7	9
CPREAL	8.415	-.095	-.065	-.047	-.007	-.007	-.000	8.009
CPIMAG	-.291	-.062	-.010	-.003	-.044	-.077	-.000	-.004
N	1	2	3	4	5	6	7	9
CPREAL	19.796	-.820	1.689	1.416	1.422	1.139	1.164	19.558
CPIMAG	3.538	-.271	-.226	-.336	-.273	-.035	-.194	3.322
N	1	2	3	4	5	6	7	9
CPREAL	1.521	-.137	1.600	1.212	1.979	1.522	1.253	1.521
CPIMAG	1.23	-.271	-.226	-.336	-.273	-.035	-.194	1.23

X=.012  
 PRESSURE

	1	2	3	4	5	6	7	9
N	1	2	3	4	5	6	7	9
CPREAL	14.482	-.184	-.179	-.065	-.144	-.072	-.041	14.558
CPIMAG	-.412	-.025	-.079	-.013	-.034	-.022	-.086	-.322
N	1	2	3	4	5	6	7	9
CPREAL	1.738	-.025	-.079	-.013	-.034	-.022	-.086	1.521
CPIMAG	-.139	-.000	-.092	-.045	-.007	-.032	-.003	-.002
N	1	2	3	4	5	6	7	9
CPREAL	8.012	-.016	-.038	-.034	-.081	-.021	-.007	8.016
CPIMAG	-.233	-.144	-.023	-.022	-.024	-.026	-.061	-.020
N	1	2	3	4	5	6	7	9
CPREAL	7.630	-.026	-.024	-.075	-.041	-.071	-.052	7.009
CPIMAG	-.501	-.105	-.104	-.053	-.016	-.041	-.000	-.035
N	1	2	3	4	5	6	7	9
CPREAL	8.415	-.095	-.065	-.047	-.007	-.007	-.000	8.009
CPIMAG	-.291	-.062	-.010	-.003	-.044	-.077	-.000	-.004
N	1	2	3	4	5	6	7	9
CPREAL	19.796	-.820	1.689	1.416	1.422	1.139	1.164	19.558
CPIMAG	3.538	-.271	-.226	-.336	-.273	-.035	-.194	3.322
N	1	2	3	4	5	6	7	9
CPREAL	1.521	-.137	1.600	1.212	1.979	1.522	1.253	1.521
CPIMAG	1.23	-.271	-.226	-.336	-.273	-.035	-.194	1.23

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. 3  
 GAP FRACTION .062

	1	2	3	4	5	6	7	9
N	1	2	3	4	5	6	7	9
CPREAL	10.704	-.409	-.426	-.023	-.063	-.059	-.057	10.704
CPIMAG	1.016	-.044	-.117	-.067	-.052	-.045	-.014	1.016
N	1	2	3	4	5	6	7	9
CPREAL	9.996	-.368	-.409	-.085	-.179	-.094	-.030	9.996
CPIMAG	-.705	-.118	-.110	-.155	-.072	-.079	-.019	-.705
N	1	2	3	4	5	6	7	9
CPREAL	5.002	-.028	-.091	-.004	-.009	-.008	-.019	5.002
CPIMAG	-.291	-.148	-.078	-.028	-.046	-.011	-.001	-.291
N	1	2	3	4	5	6	7	9
CPREAL	2.734	-.164	-.056	-.034	-.031	-.091	-.007	2.734
CPIMAG	-.035	-.051	-.037	-.021	-.003	-.005	-.002	-.035
N	1	2	3	4	5	6	7	9
CPREAL	2.562	-.180	-.086	-.015	-.019	-.079	-.029	2.562
CPIMAG	-.013	-.057	-.056	-.027	-.056	-.010	-.014	-.013
N	1	2	3	4	5	6	7	9
CPREAL	1.521	-.137	1.600	1.212	1.979	1.522	1.253	1.521
CPIMAG	1.23	-.271	-.226	-.336	-.273	-.035	-.194	1.23

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 42 ALPHA-MCL = 2.0 POP RUN-PT 9.21  
 RUN 9 ALPHA-BAR = 2.0 Q-COMP = 32359  
 POINT 4 SIGMA = 180. V-REF = 199.46  
 COMPILED FREQUENCY = 15.46, K = .1218

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

SLADE NO. 3

X=.005  
 SUCTION

N	CP-MAG	PHI
1	28.122	175.40
2	1.015	58.83
3	1.735	193.91
4	.815	258.76
5	.038	124.41
6	.816	249.01
7	.527	342.91
8	.309	230.04
9	.316	321.89
10	.155	177.65

X=.012  
 SUCTION

N	CP-MAG	PHI
1	24.783	177.35
2	5.012	262.56
3	1.773	350.27
4	.773	250.58
5	.268	335.54
6	.360	66.04
7	.236	322.48
8	.141	35.85
9	.264	75.55
10		30.46

X=.030  
 SUCTION

N	CP-MAG	PHI
1	7.841	176.61
2	.341	83.63
3	.030	291.89
4	.268	58.12
5	.143	148.83
6	.041	289.89
7	.071	13.50
8	.050	13.92
9	.059	134.91
10		149.88

OCWT PERIODICITY TEST	3	5	6	7	9
LEADING EDGE PLANE DATA, WALL STATIONS					
FILE 42	42	42	42	42	42
ALPHA-MCL = 2.0	2.0	2.0	2.0	2.0	2.0
POP RUN-PT 9.21	9.21	9.21	9.21	9.21	9.21
Q-COMP = 32359	32359	32359	32359	32359	32359
SIGMA = 180.	180.	180.	180.	180.	180.
V-REF = 199.46	199.46	199.46	199.46	199.46	199.46
COMPILED FREQUENCY = 15.46, K = .1218	15.46, K = .1218	15.46, K = .1218	15.46, K = .1218	15.46, K = .1218	15.46, K = .1218
FOURIER COEFFICIENTS, AMPLITUDE					
*** BLADE PRESSURES, PER RADIAN ***					
SLADE NO. 3	3	5	6	7	9
X=.005					
SUCTION					
N	CP-MAG	PHI	N	CP-MAG	PHI
1	28.122	175.40	1	25.524	175.06
2	1.015	58.83	2	.541	175.88
3	1.735	193.91	3	.539	329.66
4	.815	258.76	4	.739	329.66
5	.038	124.41	5	.583	329.66
6	.816	249.01	6	.605	329.66
7	.527	342.91	7	.317	329.66
8	.309	230.04	8	.187	329.66
9	.316	321.89	9	.187	329.66
10	.155	177.65	10	.187	329.66
X=.012			N	CP-MAG	PHI
SUCTION			1	19.793	177.52
1	24.783	177.35	2	1.292	353.27
2	5.012	262.56	3	.123	23.58
3	1.773	350.27	4	.093	301.91
4	.773	250.58	5	.116	332.65
5	.268	335.54	6	.206	33.57
6	.360	66.04	7	.103	140.07
7	.236	322.48	8	.271	262.26
8	.141	35.85	9	.084	262.26
9	.264	75.55	10	.084	262.26
10		30.46			
X=.030			N	CP-MAG	PHI
SUCTION			1	7.841	176.61
1	7.841	176.61	2	.341	83.63
2	.341	83.63	3	.030	291.89
3	.030	291.89	4	.268	58.12
4	.268	58.12	5	.143	148.83
5	.143	148.83	6	.041	289.89
6	.041	289.89	7	.071	13.50
7	.071	13.50	8	.050	13.92
8	.050	13.92	9	.059	134.91
9	.059	134.91	10		149.88
10		149.88			

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 42 ALPHA-MCL = 2.0 POP RUN-PT 9.21  
 RUN 9 ALPHA-BAR = 2.0 Q-COMP = 12359  
 POINT 4 SIGMA = 180. V-REF = 199.46  
 COMPUTED FREQUENCY = 15.46. K = .1218  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	5	6	7	9
X=0.62 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	7.915 178.99	1 7.347 177.76	1 8.017 177.90	1 7.646 176.24	1 7.339 177.01
2	1.197 110.22	2 3.47 190.05	2 1.45 96.18	2 1.08 104.07	2 1.11 103.51
3	.014 141.51	3 .094 166.64	3 .099 112.80	3 .027 209.71	3 .032 132.59
4	.073 181.41	4 .041 119.40	4 .041 112.80	4 .027 209.71	4 .032 132.59
5	.053 166.41	5 .042 119.40	5 .042 112.80	5 .042 112.80	5 .042 112.80
6	.045 189.37	6 .042 119.40	6 .042 112.80	6 .042 112.80	6 .042 112.80
7	.045 189.37	7 .042 119.40	7 .042 112.80	7 .042 112.80	7 .042 112.80
8	.023 97.77	8 .021 136.81	8 .021 136.81	8 .021 136.81	8 .021 136.81
9	.023 97.77	9 .021 136.81	9 .021 136.81	9 .021 136.81	9 .021 136.81
10	.051 356.57	10 .043 136.81	10 .043 136.81	10 .043 136.81	10 .043 136.81
X=0.12 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	14.487 358.37	1 13.641 357.94	1 16.822 356.15	1 19.958 352.69	1 23.533 356.21
2	1.748 261.94	2 1.171 260.47	2 2.527 255.65	2 3.711 253.17	2 4.786 259.04
3	.181 171.94	3 .127 169.34	3 .145 166.10	3 .173 163.53	3 .206 169.69
4	.102 50.66	4 .082 357.87	4 .135 348.13	4 .191 345.43	4 .237 350.77
5	.144 354.70	5 .067 222.94	5 .102 206.59	5 .145 203.16	5 .187 209.71
6	.179 205.16	6 .083 175.94	6 .111 163.58	6 .145 160.19	6 .173 166.64
7	.046 152.00	7 .081 149.19	7 .111 146.19	7 .145 143.19	7 .173 149.74
8	.060 270.42	8 .090 149.19	8 .111 146.19	8 .145 143.19	8 .173 149.74
9	.088 150.02	9 .090 149.19	9 .111 146.19	9 .145 143.19	9 .173 149.74
10	.115 150.02	10 .090 149.19	10 .111 146.19	10 .145 143.19	10 .173 149.74

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	3	5	6	7	9
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	10.752 174.59	1 10.021 175.97	1 5.011 176.67	1 2.734 180.10	1 2.562 179.70
2	.082 258.69	2 1.170 260.24	2 .091 258.02	2 .171 262.71	2 .188 262.71
3	.042 258.69	3 .023 258.02	3 .050 258.02	3 .083 262.71	3 .102 262.71
4	.082 258.69	4 .023 258.02	4 .050 258.02	4 .083 262.71	4 .102 262.71
5	.082 258.69	5 .023 258.02	5 .050 258.02	5 .083 262.71	5 .102 262.71
6	.082 258.69	6 .023 258.02	6 .050 258.02	6 .083 262.71	6 .102 262.71
7	.082 258.69	7 .023 258.02	7 .050 258.02	7 .083 262.71	7 .102 262.71
8	.082 258.69	8 .023 258.02	8 .050 258.02	8 .083 262.71	8 .102 262.71
9	.082 258.69	9 .023 258.02	9 .050 258.02	9 .083 262.71	9 .102 262.71
10	.082 258.69	10 .023 258.02	10 .050 258.02	10 .083 262.71	10 .102 262.71

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 44 ALPHA-MCL = 2.0 POP RUN-PI 9.23  
 RUN 9 ALPHA-BAR = 2.0 O-COMP = 12329  
 POINT 6 SIGMA = 180. V-REF = 199.36  
 COMPUTED FREQUENCY = 19.07, K = .1503

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XZ=002  
 SUCTION

N	CPREAL	CPIMAG
1	-28.714	2.771
2	.507	.731
3	-1.572	.655
4	-.242	-.028
5	-.023	.659
6	-.350	.253
7	.388	-.387
8	-.278	-.328
9	.199	-.094
10	.094	.026

XZ=002  
 SUCTION

N	CPREAL	CPIMAG
1	-25.370	1.344
2	-1.077	-5.291
3	.503	.014
4	-.467	-.919
5	.669	-.507
6	.297	.317
7	.015	-.075
8	.268	-.033
9	-.177	-.132
10	.225	-.049

XZ=030  
 SUCTION

N	CPREAL	CPIMAG
1	-8.682	.574
2	.171	.370
3	.004	.001
4	.114	.154
5	-.127	.033
6	.024	-.053
7	.021	.014
8	.011	-.049
9	-.069	-.018
10	.016	

9

7

5

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	19.730	-.381	1	21.523	-1.663	1	18.699	-1.881
2	-.180	-1.369	2	-1.306	-3.292	2	-.555	-2.957
3	-.092	-.028	3	.179	.603	3	-.977	-.541
4	.014	-.080	4	.332	-.104	4	.183	-.021
5	-.023	-.055	5	-.005	-.055	5	.088	-.197
6	-.066	-.198	6	.005	-.023	6	.142	-.255
7	.243	-.154	7	-.056	.023	7	-.117	-.111
8	-.181	-.129	8	-.072	-.000	8	-.160	.030
9			9			9		
10			10			10		

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 44 ALPHA-MCL = 2.0 POP RUN-PT 9.23  
 RUN 9 ALPHA-BAR = 2.0 O-COMP = .32329  
 POINT 6 SIGMA = 180. V-REF = 199.36  
 COMPUTED FREQUENCY = 19.07, K = .1503  
 FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9						
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	.060	-.234	1	7.761	.348	1	8.111	-.490	1	6.948	-.574
2	2	.032	-.107	2	.098	.241	2	.090	-.150	2	.035	-.016
3	3	.032	-.107	3	.078	.020	3	.003	-.002	3	.034	-.008
4	4	.028	-.006	4	.061	-.007	4	.035	-.014	4	.002	-.029
5	5	.023	-.023	5	.005	-.002	5	-.033	-.006	5	.016	-.009
6	6	.036	-.048	6	.017	.037	6	-.003	-.029	6	.036	-.009
7	7	.031	-.034	7	.016	.037	7	-.055	-.045	7	.010	-.010
8	8	.030	-.043	8	.016	.011	8	-.007	-.031	8	.010	-.015
9	9	.059	-.007	9	.035	-.011	9			9		
10	10			10			10			10		
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	.305	-.376	1	14.611	.642	1	16.689	-.374	1	24.555	1.709
2	2	.210	-.178	2	.308	-.094	2	.554	-.369	2	1.156	-.619
3	3	.241	-.043	3	.012	.151	3	.333	-.092	3	1.279	-.394
4	4	.029	.115	4	.157	.073	4	.105	.025	4	.444	-.691
5	5	.099	.043	5	.075	.048	5	.021	-.007	5	.931	-.631
6	6	.004	.029	6	.074	.036	6	.041	-.037	6	.213	-.374
7	7	.057	.048	7	.067	.010	7	.006	-.023	7	.182	-.209
8	8	.035	-.036	8	.067	.087	8	.073	-.043	8	.380	-.221
9	9	.022	.030	9	.034	.005	9	.038	-.019	9	.167	-.221
10	10	.083	-.009	10			10			10	.252	.021

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938		
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	11.170	1.081	1	5.580	.708	1	3.079	-.082
2	.353	-1.947	2	.075	-.202	2	-.053	-.188
3	.398	-.145	3	.083	-.257	3	-.073	-.117
4	.014	-.023	4	.011	-.018	4	.024	-.056
5	.130	-.044	5	.070	-.038	5	.016	-.008
6	.006	-.021	6	.009	-.008	6	-.007	-.005
7	.032	-.020	7	.017	-.007	7	.010	-.004
8	.046	.076	8	.032	-.024	8	-.031	-.034
9	.011	.009	9	.014	-.009	9	-.011	-.010
10			10			10		



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 44 ALPHA-MCL = 2.0 PDP RUN-PT 9.23  
 RUN 9 ALPHA-BAR = 2.0 O-COMP = .32329  
 POINT 6 SIGMA = 180. V-REF = 195.36  
 COMPUTED FREQUENCY = 19.07, K = .1503

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

XE:005  
 SUCTION

N	CP-MAG	PHI
1	28.847	174.49
2	.889	155.27
3	1.703	157.40
4	.888	254.20
5	.037	230.72
6	.747	242.03
7	.463	326.37
8	.476	334.27
9	.367	302.91
10	.097	15.46

XE:012  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	24.651	176.64	1	19.778	176.00	1	25.822	174.63	1	21.587	175.58
2	5.027	383.57	2	1.321	362.17	2	.462	360.38	2	1.334	359.14
3	1.021	353.88	3	.187	344.69	3	.755	343.27	3	.823	348.22
4	.873	336.07	4	.096	343.11	4	.836	343.27	4	.823	348.22
5	.886	326.07	5	.016	286.23	5	.628	329.56	5	.349	161.99
6	.168	384.19	6	.083	286.23	6	.140	329.56	6	.055	162.99
7	.421	325.33	7	.181	342.33	7	.101	324.59	7	.048	95.50
8	.464	359.34	8	.209	371.48	8	.166	324.59	8	.059	157.33
9	.085	175.34	9	.288	147.58	9	.069	242.31	9	.118	298.53
10	.195	44.28	10	.222	215.52	10	.243	12.46	10	.072	359.84

XE:030  
 SUCTION

N	CP-MAG	PHI
1	8.701	176.22
2	.408	165.13
3	.004	13.89
4	.202	155.85
5	.155	152.95
6	.025	34.04
7	.018	34.04
8	.084	144.58
9	.024	111.43
10		

MODE 2 --- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 44 ALPHA-MCL = 2.0 POP RUN-PT 9.23  
 RUN 9 ALPHA-BAR = 2.0 O-COMP = 32329  
 POINT 6 SIGMA = 180. V-REF = 199.36  
 COMPUTED FREQUENCY = 19.07, K = .1503  
 FOURIER COEFFICIENTS AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	7.690	178.26	7.774	176.54	8.097	176.75
2	.223	174.38	.211	162.20	.029	159.13
3	.123	116.36	.130	121.84	.160	135.34
4	.061	220.99	.061	139.50	.173	275.56
5	.036	173.98	.062	175.89	.022	281.66
6	.049	219.54	.041	174.20	.064	281.66
7	.057	122.40	.041	298.26	.119	138.69
8	.053	155.14	.019	214.33	.028	140.86
9	.059	186.40	.039	204.63	.028	283.37
10						
X=.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	15.310	358.59	14.625	357.48	20.555	355.23
2	1.796	263.30	2.119	261.19	1.806	256.81
3	.245	169.41	.351	175.60	1.719	166.16
4	.119	104.41	.173	185.65	.622	103.16
5	.030	336.71	.089	334.57	.440	133.56
6	.075	205.39	.082	212.86	.190	340.35
7	.102	219.75	.065	153.84	.093	320.72
8	.038	289.35	.109	307.47	.237	329.55
9			.034	9.04	.127	153.29
10						

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	W3		W4		W5		W7		W8		W9	
GAP FRACTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	11.237	179.47	176.17	10.92	5.584	177.92	3.409	182.88	182.88	3.216	181.50	181.50
2	.423	159.73	162.52	10.92	.365	158.14	.109	159.14	159.14	.152	181.50	181.50
3	.027	239.38	239.18	10.92	.089	239.22	.129	240.25	240.25	.152	201.88	201.88
4	.127	239.38	239.18	10.92	.072	194.22	.029	315.95	315.95	.032	201.88	201.88
5	.089	199.58	254.26	10.92	.081	221.85	.023	315.95	315.95	.032	216.97	216.97
6	.021	273.89	51.81	10.92	.018	231.30	.017	354.99	354.99	.032	216.97	216.97
7	.038	326.71	352.90	10.92	.040	327.78	.027	281.23	281.23	.032	223.71	223.71
8	.089	141.42	327.98	10.92	.017	327.78	.017	281.23	281.23	.032	223.71	223.71
9				10								
10												

RESUME.PH

TABLE 10

MODE 2 DATA FOR  $\alpha_{MCL} = 6$  deg,  $\bar{\alpha} = 0.5$  deg

<u><math>\sigma</math> (deg)</u>	<u>k</u>	<u>page</u>
-135	.0719	606
"	.1216	610
"	.1501	614
-90	.0714	618
"	.1229	622
"	.1516	626
-45	-	-
"	.1201	630
"	.1487	634
0	.0719	638
"	.1231	642
"	.1500	646
45	.0718	650
"	.1223	654
"	.1512	658
90	.0711	662
"	.1222	666
"	.1515	670
135	.0721	674
"	.1229	678
"	.1516	682
180	.0709	686
"	.1205	690
"	.1493	694

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OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

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127  ALPHA-MCL = 6.0      POP RUN PT = 269433
128  ALPHA-BAR = .5       C-COMP = 329.33
129  ALPHA-SIGMA = 135.   W-REF = 199.33
130  COMPUTED FREQUENCY = 9.12, K = .0719

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN

\*\*\* BLADE PRESSURES, PER FACIAN \*\*\*  
 \*\*\* CUFFICIENTS, PER FACIAN \*\*\*  
 \*\*\* FUEL-TER CUFFICIENTS, PER FACIAN \*\*\*

**BLADE NO.**

**Suction**

10

51

9

7.

N	CPRAL	CPYMG
1	5209	10.009
2	5107	11.386
3	5107	11.243
4	5107	11.143
5	5107	11.003
6	5202	10.907
7	5202	10.733
8	5202	10.533
9	5107	10.333
10	5107	10.133

$x = \frac{1}{2}$

4 CPEAL CPMAG

N	CPEAL	CPIMAG
1	1022	23.486
2	1967	-1.738
3	4222	-1.152
4	2222	-1.169
5	2263	1.134
6	2263	1.372
7	1999	1.001
8	1999	1.241
9	1981	1.056
10	1981	1.111

N	CREAL	CPI MAG	N	CREAL	CPI MAG	N	CREAL	CPI MAG	N	CREAL	CPI MAG
1	16	039	1	19	16	1	19	16	1	19	16
2	15	035	2	18	15	2	18	15	2	18	15
3	14	031	3	17	14	3	17	14	3	17	14
4	13	027	4	16	13	4	16	13	4	16	13
5	12	023	5	15	12	5	15	12	5	15	12
6	11	019	6	14	11	6	14	11	6	14	11
7	10	015	7	13	10	7	13	10	7	13	10
8	9	011	8	12	9	8	12	9	8	12	9
9	8	007	9	11	8	9	11	8	9	11	8
10	7	003	10	10	7	10	10	7	10	10	7
11	6	000	11	9	6	11	9	6	11	9	6
12	5	000	12	8	5	12	8	5	12	8	5
13	4	000	13	7	4	13	7	4	13	7	4
14	3	000	14	6	3	14	6	3	14	6	3
15	2	000	15	5	2	15	5	2	15	5	2
16	1	000	16	4	1	16	4	1	16	4	1
17	0	000	17	3	0	17	3	0	17	3	0
18	0	000	18	2	0	18	2	0	18	2	0
19	0	000	19	1	0	19	1	0	19	1	0
20	0	000	20	0	0	20	0	0	20	0	0

SMC 9704  
X-932

N	CPPEAL	1	926
1	926	2	927
2	927	3	928
3	928	4	929
4	929	5	930
5	930	6	931
6	931	7	932
7	932	8	933
8	933	9	934
9	934	10	935
10	935	11	936
11	936	12	937
12	937	13	938
13	938	14	939
14	939	15	940
15	940	16	941
16	941	17	942
17	942	18	943
18	943	19	944
19	944	20	945
20	945	21	946
21	946	22	947
22	947	23	948
23	948	24	949
24	949	25	950
25	950	26	951
26	951	27	952
27	952	28	953
28	953	29	954
29	954	30	955
30	955	31	956
31	956	32	957
32	957	33	958
33	958	34	959
34	959	35	960
35	960	36	961
36	961	37	962
37	962	38	963
38	963	39	964
39	964	40	965
40	965	41	966
41	966	42	967
42	967	43	968
43	968	44	969
44	969	45	970
45	970	46	971
46	971	47	972
47	972	48	973
48	973	49	974
49	974	50	975
50	975	51	976
51	976	52	977
52	977	53	978
53	978	54	979
54	979	55	980
55	980	56	981
56	981	57	982
57	982	58	983
58	983	59	984
59	984	60	985
60	985	61	986
61	986	62	987
62	987	63	988
63	988	64	989
64	989	65	990
65	990	66	991
66	991	67	992
67	992	68	993
68	993	69	994
69	994	70	995
70	995	71	996
71	996	72	997
72	997	73	998
73	998	74	999
74	999	75	1000
75	1000	76	1001
76	1001	77	1002
77	1002	78	1003
78	1003	79	1004
79	1004	80	1005
80	1005	81	1006
81	1006	82	1007
82	1007	83	1008
83	1008	84	1009
84	1009	85	1010
85	1010	86	1011
86	1011	87	1012
87	1012	88	1013
88	1013	89	1014
89	1014	90	1015
90	1015	91	1016
91	1016	92	1017
92	1017	93	1018
93	1018	94	1019
94	1019	95	1020
95	1020	96	1021
96	1021	97	1022
97	1022	98	1023
98	1023	99	1024

[illegible]

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FILE 127 ALPHA-MCH = 6.0 PDP RUN PT 32413
PUN 26 ALPHA-BAR = 135.0 O-COMP = 199.33
POINT 2 SIGNA = -135.0 V-REF = 199.33
COMPUTED FREQUENCY = 9.12, M = .0719
FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
COMPUTED BY THE FOLLOWING PROGRAM:

BLADE NO.

[illegible]

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

CAPTATION

[illegible]

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 127 ALPHA-MCL = 6.0 PDP RUN-PT 36.93  
 RUN 26 ALPHA-BAR = .5 C-COMP = .3213  
 POINT 2 SIGMA = -135. V-REF = 109.33  
 FOURIER COEFFICIENTS' AMPLITUDE 9.12. X = .0719  
 \*\* BLADE PRESSURES, PER RADIAN \*\*  
 UNBIASED PHASE ANGLE

BLADE NO. 3

N	CP-MAG	PHI
1	19.424	166.53
2	1.623	140.50
3	1.405	90.30
4	1.202	225.47
5	1.051	239.00
6	1.016	237.44
7	1.026	303.40
8	1.035	157.65
9	1.073	359.61

SECTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	29.965	167.66	1	1.060	161.23	1	1.060	167.19
2	1.227	163.67	2	1.243	227.85	2	1.243	167.01
3	1.453	142.95	3	1.013	229.95	3	1.013	159.89
4	1.408	102.45	4	1.136	104.95	4	1.136	157.27
5	1.679	179.99	5	1.266	104.78	5	1.266	198.86
6	1.378	218.79	6	1.372	130.20	6	1.372	355.18
7	1.376	218.31	7	1.214	168.88	7	1.214	358.21
8	1.155	253.26	8	1.068	279.88	8	1.068	339.99
9	1.155	253.26	9	1.110	279.88	9	1.069	325.08
10	1.155	253.26	10	1.110	279.88	10	1.069	325.08

SECTION

N	CP-MAG	PHI
1	19.424	166.53
2	1.623	140.50
3	1.405	90.30
4	1.202	225.47
5	1.051	239.00
6	1.016	237.44
7	1.026	303.40
8	1.035	157.65
9	1.073	359.61

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 127 ALPHA-MCH = 6.0 PDF RUN-PT 284.01  
 SUN 26 ALPHA-BAR = 0.000 O-COMPT = 199.33  
 POINT 2 SIGMA = -135.0 V-REF = 199.33  
 FOURIER COEFFICIENTS, AMPLITUDE = 9.12, K = .0719  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9							
X=0.162 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	
1	1	5.763	175.97	1	5.476	169.74	1	1	7.727	154.88	1	5.308	156.03
2	2	5.14	167.71	2	5.10	168.78	2	2	7.320	156.03	2	5.332	156.03
3	3	5.16	167.71	3	5.29	168.78	3	3	7.320	156.03	3	5.332	156.03
4	4	5.16	167.71	4	5.29	168.78	4	4	7.320	156.03	4	5.332	156.03
5	5	5.16	167.71	5	5.29	168.78	5	5	7.320	156.03	5	5.332	156.03
6	6	5.16	167.71	6	5.29	168.78	6	6	7.320	156.03	6	5.332	156.03
7	7	5.16	167.71	7	5.29	168.78	7	7	7.320	156.03	7	5.332	156.03
8	8	5.16	167.71	8	5.29	168.78	8	8	7.320	156.03	8	5.332	156.03
9	9	5.16	167.71	9	5.29	168.78	9	9	7.320	156.03	9	5.332	156.03
10	10	5.16	167.71	10	5.29	168.78	10	10	7.320	156.03	10	5.332	156.03
X=0.12 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	
1	1	8.929	346.02	1	8.929	346.02	1	1	12.638	346.02	1	11.625	346.02
2	2	1.027	346.02	2	1.027	346.02	2	2	12.638	346.02	2	11.625	346.02
3	3	1.027	346.02	3	1.027	346.02	3	3	12.638	346.02	3	11.625	346.02
4	4	1.027	346.02	4	1.027	346.02	4	4	12.638	346.02	4	11.625	346.02
5	5	1.027	346.02	5	1.027	346.02	5	5	12.638	346.02	5	11.625	346.02
6	6	1.027	346.02	6	1.027	346.02	6	6	12.638	346.02	6	11.625	346.02
7	7	1.027	346.02	7	1.027	346.02	7	7	12.638	346.02	7	11.625	346.02
8	8	1.027	346.02	8	1.027	346.02	8	8	12.638	346.02	8	11.625	346.02
9	9	1.027	346.02	9	1.027	346.02	9	9	12.638	346.02	9	11.625	346.02
10	10	1.027	346.02	10	1.027	346.02	10	10	12.638	346.02	10	11.625	346.02

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	3	4	5	6	7	9						
GAP FRACTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	19.235	175.97	175.97	1	15.623	169.74	1	12.638	154.88	1	11.625	156.03
2	1.027	167.71	167.71	2	1.027	168.78	2	12.638	156.03	2	11.625	156.03
3	1.027	167.71	167.71	3	1.027	168.78	3	12.638	156.03	3	11.625	156.03
4	1.027	167.71	167.71	4	1.027	168.78	4	12.638	156.03	4	11.625	156.03
5	1.027	167.71	167.71	5	1.027	168.78	5	12.638	156.03	5	11.625	156.03
6	1.027	167.71	167.71	6	1.027	168.78	6	12.638	156.03	6	11.625	156.03
7	1.027	167.71	167.71	7	1.027	168.78	7	12.638	156.03	7	11.625	156.03
8	1.027	167.71	167.71	8	1.027	168.78	8	12.638	156.03	8	11.625	156.03
9	1.027	167.71	167.71	9	1.027	168.78	9	12.638	156.03	9	11.625	156.03
10	1.027	167.71	167.71	10	1.027	168.78	10	12.638	156.03	10	11.625	156.03

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 129 ALPHA-MCL = 6.0 PDP RUN PY 78.05  
RUN 26 ALPHA-BAB = .5 O-COMF = 12866  
POINT 4 SIGMA = -135. V-REF = 179.81  
COMPUTED FREQUENCY = 15.47, K = .1216

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

SECTION  
SUCTION

N	CPREAL	CPIMAG
1	298	18.874
2	-1.665	-1.6550
3	-.384	-.2361
4	-.370	-.3372
5	-.46	-.3955
6	-.131	-.3533
7	-.074	-.3082
8	-.016	-.248
9	-.016	-.048
10	-.016	-.048

SECTION  
SUCTION

N	CPREAL	CPIMAG
1	26	128-16
2	-2	128-16
3	-.372	-.372
4	-.372	-.372
5	-.372	-.372
6	-.372	-.372
7	-.372	-.372
8	-.372	-.372
9	-.372	-.372
10	-.372	-.372

SECTION  
SUCTION

N	CPREAL	CPIMAG
1	26	128-16
2	-2	128-16
3	-.372	-.372
4	-.372	-.372
5	-.372	-.372
6	-.372	-.372
7	-.372	-.372
8	-.372	-.372
9	-.372	-.372
10	-.372	-.372

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OF POOR QUALITY



# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 129 ALPHA-RGB = 6.8 POP PUMP PI 36.05  
 RUN 26 ALPHA-RGB = 135.0 O-COMP = 324.86  
 POINT COMPUTED V-REF = 199.81  
 FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.  
 X=162  
 SUCTION

3									4									5									6									7									9								
N			CPREAL			CPIMAG			N			CPREAL			CPIMAG			N			CPREAL			CPIMAG			N			CPREAL			CPIMAG			N			CPREAL			CPIMAG											
1	2	3	-5.402	-3.565	-0.271	5.761	-0.025	-0.365	1	2	3	-7.451	-0.668	-0.133	1	2	3	5.515	-0.590	-0.133	1	2	3	5.515	-0.590	-0.133	1	2	3	5.515	-0.590	-0.133	1	2	3	5.515	-0.590	-0.133															
4	5	6	-2.819	-2.620	-0.271	5.761	-0.025	-0.365	4	5	6	-0.636	-0.019	-0.173	4	5	6	-0.590	-0.249	-0.167	4	5	6	-0.590	-0.249	-0.167	4	5	6	-0.590	-0.249	-0.167	4	5	6	-0.590	-0.249	-0.167															
7	8	9	-2.244	-2.298	-0.271	5.761	-0.025	-0.365	7	8	9	-0.019	-0.053	-0.360	7	8	9	-0.249	-0.167	-0.063	7	8	9	-0.249	-0.167	-0.063	7	8	9	-0.249	-0.167	-0.063	7	8	9	-0.249	-0.167	-0.063															
10			-0.022	-0.042	-0.053	5.761	-0.025	-0.365	10			-0.053	-0.020	-0.360	10			-0.167	-0.063	-0.035	10			-0.167	-0.063	-0.035	10			-0.167	-0.063	-0.035	10			-0.167	-0.063	-0.035															
N			CPREAL			CPIMAG			N			CPREAL			CPIMAG			N			CPREAL			CPIMAG			N			CPREAL			CPIMAG			N			CPREAL			CPIMAG											
1	2	3	6.598	5.251	-0.022	-0.021	-0.008	7.927	1	2	3	9.329	-0.884	-0.035	1	2	3	-13.315	-2.222	-1.182	1	2	3	-13.315	-2.222	-1.182	1	2	3	-13.315	-2.222	-1.182	1	2	3	-13.315	-2.222	-1.182															
4	5	6	-2.246	-2.620	-0.064	-0.035	-0.372	4	5	6	-0.884	-0.035	-0.372	4	5	6	-2.222	-1.182	-0.622	4	5	6	-2.222	-1.182	-0.622	4	5	6	-2.222	-1.182	-0.622	4	5	6	-2.222	-1.182	-0.622																
7	8	9	-1.595	-1.595	-0.064	-0.035	-0.372	7	8	9	-0.035	-0.051	-0.372	7	8	9	-1.182	-0.622	-0.322	7	8	9	-1.182	-0.622	-0.322	7	8	9	-1.182	-0.622	-0.322	7	8	9	-1.182	-0.622	-0.322																
10			-0.077	-0.077	-0.017	-0.035	-0.372	10			-0.051	-0.035	-0.372	10			-0.622	-0.322	-0.022	10			-0.622	-0.322	-0.022	10			-0.622	-0.322	-0.022	10			-0.622	-0.322	-0.022																
N			CPREAL			CPIMAG			N			CPREAL			CPIMAG			N			CPREAL			CPIMAG			N			CPREAL			CPIMAG			N			CPREAL			CPIMAG											
1	2	3	5.980	5.251	-0.077	-0.035	-0.006	7.927	1	2	3	9.329	-0.884	-0.051	1	2	3	-13.315	-2.222	-1.182	1	2	3	-13.315	-2.222	-1.182	1	2	3	-13.315	-2.222	-1.182	1	2	3	-13.315	-2.222	-1.182															
4	5	6	-2.246	-2.620	-0.077	-0.035	-0.006	4	5	6	-0.884	-0.051	-0.372	4	5	6	-2.222	-1.182	-0.622	4	5	6	-2.222	-1.182	-0.622	4	5	6	-2.222	-1.182	-0.622	4	5	6	-2.222	-1.182	-0.622																
7	8	9	-1.595	-1.595	-0.077	-0.035	-0.006	7	8	9	-0.051	-0.035	-0.372	7	8	9	-1.182	-0.622	-0.322	7	8	9	-1.182	-0.622	-0.322	7	8	9	-1.182	-0.622	-0.322	7	8	9	-1.182	-0.622	-0.322																
10			-0.077	-0.077	-0.017	-0.035	-0.006	10			-0.035	-0.035	-0.372	10			-0.622	-0.322	-0.022	10			-0.622	-0.322	-0.022	10			-0.622	-0.322	-0.022	10			-0.622	-0.322	-0.022																
N			CPREAL			CPIMAG			N			CPREAL			CPIMAG			N			CPREAL			CPIMAG			N			CPREAL			CPIMAG			N			CPREAL			CPIMAG											
1	2	3	6.598	5.251	-0.077	-0.035	-0.006	7.927	1	2	3	9.329	-0.884	-0.051	1	2	3	-13.315	-2.222	-1.182	1	2	3	-13.315	-2.222	-1.182	1	2	3	-13.315	-2.222	-1.182	1	2	3	-13.315	-2.222	-1.182															
4	5	6	-2.246	-2.620	-0.077	-0.035	-0.006	4	5	6	-0.884	-0.051	-0.372	4	5	6	-2.222	-1.182	-0.622	4	5	6	-2.222	-1.182	-0.622	4	5	6	-2.222	-1.182	-0.622	4	5	6	-2.222	-1.182	-0.622																
7	8	9	-1.595	-1.595	-0.077	-0.035	-0.006	7	8	9	-0.051	-0.035	-0.372	7	8	9	-1.182	-0.622	-0.322	7	8	9	-1.182	-0.622	-0.322	7	8	9	-1.182	-0.622	-0.322	7	8	9	-1.182	-0.622	-0.322																
10			-0.077	-0.077	-0.017	-0.035	-0.006	10			-0.035	-0.035	-0.372	10			-0.622	-0.322	-0.022	10			-0.622	-0.322	-0.022	10			-0.622	-0.322	-0.022	10			-0.622	-0.322	-0.022																

X=212  
 PRESSURE

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.  
 GAP FRACTION

WALL NO. 1		WALL NO. 2		WALL NO. 3		WALL NO. 4		WALL NO. 5		WALL NO. 6		WALL NO. 7		WALL NO. 8		WALL NO. 9	
N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL
1	-12.749	1	-16.459	1	-3.232	1	-6.669	1	-1.034	1	-3.650	1	-0.669	1	-0.353	1	-0.669
2	-1.034	2	-1.113	2	-3.297	2	-0.074	2	-0.353	2	-1.034	2	-0.353	2	-0.353	2	-0.353
3	-0.271	3	-0.165	3	-3.335	3	0.136	3	-0.353	3	-0.353	3	-0.353	3	-0.353	3	-0.353
4	-0.271	4	-0.145	4	-0.299	4	-0.063	4	-0.353	4	-0.353	4	-0.353	4	-0.353	4	-0.353
5	-0.271	5	-0.273	5	-0.143	5	-0.059	5	-0.353	5	-0.353	5	-0.353	5	-0.353	5	-0.353
6	-0.271	6	-0.161	6	-0.143	6	-0.041	6	-0.353	6	-0.353	6	-0.353	6	-0.353	6	-0.353
7	-0.271	7	-0.069	7	-0.002	7	-0.001	7	-0.353	7	-0.353	7	-0.353	7	-0.353	7	-0.353
8	-0.271	8	-0.009	8	-0.002	8	-0.001	8	-0.353	8	-0.353	8	-0.353	8	-0.353	8	-0.353
9	-0.271	9	-0.009	9	-0.002	9	-0.001	9	-0.353	9	-0.353	9	-0.353	9	-0.353	9	-0.353
10	-0.271	10	-0.009	10	-0.002	10	-0.001	10	-0.353	10	-0.353	10	-0.353	10	-0.353	10	-0.353

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 129 ALPHA-MCL = 6.0 PDP RUN PT 26.465  
 RUN 26 ALPHA-GAP = .5 C-COMP = 12.466  
 POINT 4 SIGMA = -115. V-REF = 199.81  
 COMPUTED FREQUENCY = 15.47, K = .1216  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3  
 X=0.02  
 SUCTION

N	CP-MAG	PHI
1	19.146	167.732
2	2.344	144.733
3	.939	103.24
4	.517	315.68
5	.267	82.26
6	.146	67.78
7	.091	117.78
8	.055	131.10
9	.030	192.10
10	.017	286.80

X=0.12  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	30.851	156.88	1	22.335	172.90	1	27.410	164.47	1	21.776	163.99	1	16.525	166.67
2	2.096	134.11	2	1.681	126.54	2	1.567	145.33	2	1.955	209.50	2	1.011	137.79
3	.906	112.19	3	1.163	106.02	3	.904	276.56	3	.385	212.81	3	.288	137.79
4	.572	102.87	4	.776	86.60	4	.623	347.82	4	.285	191.72	4	.030	137.79
5	.334	101.97	5	.503	70.00	5	.462	292.12	5	.255	192.56	5	.017	137.79
6	.280	101.72	6	.403	50.14	6	.338	127.25	6	.152	152.97	6	.014	137.79
7	.215	101.44	7	.264	31.26	7	.225	159.05	7	.107	137.79	7	.008	137.79
8	.165	101.16	8	.123	261.26	8	.090	175.05	8	.075	137.79	8	.008	137.79
9	.125	100.88	9	.089	151.26	9	.060	199.05	9	.055	137.79	9	.008	137.79
10	.085	100.60	10	.060	126.00	10	.040	175.05	10	.040	137.79	10	.008	137.79

X=0.30  
 SUCTION

N	CP-MAG	PHI
1	32.255	122.55
2	2.255	122.55
3	.555	122.55
4	.355	122.55
5	.255	122.55
6	.155	122.55
7	.055	122.55
8	.055	122.55
9	.055	122.55
10	.055	122.55

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 129 ALPHA-MCL = 6.0 PUP RUN PT 26.05  
 RUN 56 ALPHA-BAR = .3266  
 POINT 4 SIGMA = -135.0  
 COMPULED FREQUENCY = 15.47, K = .1216  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	1	5	6	7	9
X-SECTION					
SUCTION					
N	1	1	1	1	1
CP-MAG	6.473	5.761	7.631	7.061	6.759
PHI	168.42	182.70	167.67	177.46	173.46
N	2	2	2	2	2
CP-MAG	1.073	1.163	2.910	1.032	1.091
PHI	125.72	146.62	291.59	137.93	133.93
N	3	3	3	3	3
CP-MAG	3.385	.462	39.21	1.173	3.382
PHI	120.28	307.03	150.21	136.92	136.92
N	4	4	4	4	4
CP-MAG	.022	.081	151.62	.132	.065
PHI	183.19	42.16	147.62	121.92	116.37
N	5	5	5	5	5
CP-MAG	.176	.079	240.49	.079	.040
PHI	117.62	82.03	140.49	120.59	120.59
N	6	6	6	6	6
CP-MAG	.055	.096	131.02	.112	.024
PHI	232.12	116.07	131.02	127.30	127.30
N	7	7	7	7	7
CP-MAG	.067	.030	220.88	.036	.012
PHI	249.52	224.82	220.88	17.30	270.58
N	8	8	8	8	8
CP-MAG	.025	.061	263.99	.036	.012
PHI	353.56	263.99	263.99	17.30	270.58
N	9	9	9	9	9
CP-MAG	.069	.027	395.70	.036	.012
PHI	163.55	229.29	395.70	17.30	270.58
N	10	10	10	10	10
CP-MAG	.021	.027	126.00	.036	.012
PHI	107.41	126.00	126.00	17.30	270.58
N	11	11	11	11	11
CP-MAG	.021	.027	126.00	.036	.012
PHI	107.41	126.00	126.00	17.30	270.58
N	12	12	12	12	12
CP-MAG	.021	.027	126.00	.036	.012
PHI	107.41	126.00	126.00	17.30	270.58
N	13	13	13	13	13
CP-MAG	.021	.027	126.00	.036	.012
PHI	107.41	126.00	126.00	17.30	270.58
N	14	14	14	14	14
CP-MAG	.021	.027	126.00	.036	.012
PHI	107.41	126.00	126.00	17.30	270.58
N	15	15	15	15	15
CP-MAG	.021	.027	126.00	.036	.012
PHI	107.41	126.00	126.00	17.30	270.58
N	16	16	16	16	16
CP-MAG	.021	.027	126.00	.036	.012
PHI	107.41	126.00	126.00	17.30	270.58
N	17	17	17	17	17
CP-MAG	.021	.027	126.00	.036	.012
PHI	107.41	126.00	126.00	17.30	270.58
N	18	18	18	18	18
CP-MAG	.021	.027	126.00	.036	.012
PHI	107.41	126.00	126.00	17.30	270.58
N	19	19	19	19	19
CP-MAG	.021	.027	126.00	.036	.012
PHI	107.41	126.00	126.00	17.30	270.58
N	20	20	20	20	20
CP-MAG	.021	.027	126.00	.036	.012
PHI	107.41	126.00	126.00	17.30	270.58

## \*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	1	5	6	7	9
GAP FRACTION					
N	1	1	1	1	1
CP-MAG	20.282	15.773	19.892	13.383	12.421
PHI	156.33	129.07	170.51	177.79	180.05
N	2	2	2	2	2
CP-MAG	.354	.203	111.76	177.79	180.05
PHI	305.32	331.98	111.76	177.79	180.05
N	3	3	3	3	3
CP-MAG	.211	.090	327.15	177.79	180.05
PHI	315.02	341.10	327.15	177.79	180.05
N	4	4	4	4	4
CP-MAG	.179	.114	102.12	177.79	180.05
PHI	117.14	114.77	102.12	177.79	180.05
N	5	5	5	5	5
CP-MAG	.052	.027	189.66	177.79	180.05
PHI	189.66	189.66	189.66	177.79	180.05
N	6	6	6	6	6
CP-MAG	.052	.027	189.66	177.79	180.05
PHI	189.66	189.66	189.66	177.79	180.05
N	7	7	7	7	7
CP-MAG	.052	.027	189.66	177.79	180.05
PHI	189.66	189.66	189.66	177.79	180.05
N	8	8	8	8	8
CP-MAG	.052	.027	189.66	177.79	180.05
PHI	189.66	189.66	189.66	177.79	180.05
N	9	9	9	9	9
CP-MAG	.052	.027	189.66	177.79	180.05
PHI	189.66	189.66	189.66	177.79	180.05
N	10	10	10	10	10
CP-MAG	.052	.027	189.66	177.79	180.05
PHI	189.66	189.66	189.66	177.79	180.05

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 131 ALPHA-MCL = 5.0 PDP RUN PT 36.97  
 RUN 26 ALPHA-HAB = 135.0 O-COMPT = 32.90  
 POINT 6 SIGMA = 135.0 V-REF = 199.70  
 FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=198  
 SUCTION

N	CPREAL	CPIMAG
1	4.476	18.924
2	-1.914	-1.581
3	-1.710	-0.370
4	0.076	-0.073
5	0.085	-0.065
6	-0.059	-0.037
7	-0.013	-0.049
8	-0.014	-0.062
9	0.023	-0.035
10	0.023	-0.021

X=192  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-27.578	-17.030	1	12.755	-19.256	1	19.720	10.051
2	-1.624	-1.079	2	1.203	-0.587	2	1.176	-0.909
3	-1.037	-0.632	3	-1.814	-0.887	3	-0.270	-0.303
4	-1.037	-0.632	4	-1.116	-0.886	4	-0.270	-0.303
5	-1.037	-0.632	5	-1.001	-0.886	5	-0.270	-0.303
6	-1.037	-0.632	6	-1.001	-0.886	6	-0.270	-0.303
7	-1.037	-0.632	7	-1.001	-0.886	7	-0.270	-0.303
8	-1.037	-0.632	8	-1.001	-0.886	8	-0.270	-0.303
9	-1.037	-0.632	9	-1.001	-0.886	9	-0.270	-0.303
10	-1.037	-0.632	10	-1.001	-0.886	10	-0.270	-0.303

X=193  
 SUCTION

N	CPREAL	CPIMAG
1	1.275	7.985
2	-1.101	-0.983
3	-1.273	-0.082
4	-0.042	-0.056
5	-0.042	-0.037
6	-0.042	-0.016
7	-0.042	-0.026
8	-0.042	-0.015
9	-0.042	-0.015
10	-0.042	-0.015

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

## 615

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 131 ALPHA-MCL = 6.0 POP RUN PT 26.07  
 RUN 20 ALPHA-BAR = .5 C-COMP = .32497  
 POINT 6 SIGMA = -135. V-REF = 109.73  
 COMPUTED FREQUENCY = 19.08. K = .1501

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=705  
 SUCTION

N	CP-MAG	PHI
1	19.446	166.69
2	1.826	157.51
3	1.801	117.51
4	.105	116.13
5	.197	327.92
6	.051	165.31
7	.163	102.66
8	.025	173.20
9	.031	137.89
10		

X=712  
 SUCTION

N	CP-MAG	PHI
1	32.397	166.65
2	1.071	136.30
3	1.716	153.14
4	.115	334.01
5	.150	290.19
6	.274	266.38
7	.163	276.94
8	.193	297.23
9		291.76
10		

X=720  
 SUCTION

N	CP-MAG	PHI
1	8.047	122.88
2	1.006	122.75
3	.267	282.97
4	.277	55.89
5	.393	57.26
6	.038	165.24
7	.016	269.08
8	.029	105.99
9	.053	
10		

9

7

6

5

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	17.303	163.82	1	22.508	163.19	1	23.098	160.52	1	24.796	167.54
2	.372	163.82	2	1.306	163.19	2	1.324	160.52	2	2.351	161.86
3	.114	257.07	3	.365	159.52	3	1.105	155.34	3	.720	117.84
4	.028	257.07	4	.375	159.52	4	1.837	203.02	4	.106	302.33
5	.093	139.52	5	.206	176.22	5	1.103	154.57	5	.147	148.00
6	.079	139.52	6	.117	176.22	6	.323	160.34	6	.075	171.80
7	.079	195.22	7	.003	233.76	7	.123	170.34	7	.048	196.55
8	.029	167.16	8	.109	204.93	8	.049	176.62	8	.030	51.02
9	.050	181.68	9		301.75	9		197.57	9		
10			10			10			10		

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 131 ALPHA-MCL = 6.0 POP RUN-PT 28.37  
 RUN 26 ALPHA-BAR = 13.5 Q-COMP = 22.30  
 POINT 6 SIGMA = -13.5 V-REF = 199.70  
 COMPUTED FREQUENCY = 19.08, K = .1501  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	4	5	6	7	9
X=1.62 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	6.713 170.99	5.891 168.27	7.339 169.11	7.297 173.06	6.909 170.77
2	3.347 167.85	4.075 177.76	7.279 173.41	7.395 179.19	6.421 170.79
3	3.29 167.85	4.075 177.76	7.279 173.41	7.395 179.19	6.421 170.79
4	3.29 167.85	4.075 177.76	7.279 173.41	7.395 179.19	6.421 170.79
5	3.29 167.85	4.075 177.76	7.279 173.41	7.395 179.19	6.421 170.79
6	3.29 167.85	4.075 177.76	7.279 173.41	7.395 179.19	6.421 170.79
7	3.29 167.85	4.075 177.76	7.279 173.41	7.395 179.19	6.421 170.79
8	3.29 167.85	4.075 177.76	7.279 173.41	7.395 179.19	6.421 170.79
9	3.29 167.85	4.075 177.76	7.279 173.41	7.395 179.19	6.421 170.79
10	3.29 167.85	4.075 177.76	7.279 173.41	7.395 179.19	6.421 170.79
X=0.12 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	8.978 350.74	8.862 343.39	9.926 343.60	13.285 329.51	11.714 338.07
2	6.289 362.62	1.279 347.36	9.338 343.60	13.285 329.51	11.714 338.07
3	2.373 174.30	1.151 347.36	1.106 343.60	2.277 271.15	1.113 338.07
4	1.033 174.30	1.151 347.36	1.106 343.60	2.277 271.15	1.113 338.07
5	1.033 174.30	1.151 347.36	1.106 343.60	2.277 271.15	1.113 338.07
6	1.033 174.30	1.151 347.36	1.106 343.60	2.277 271.15	1.113 338.07
7	1.033 174.30	1.151 347.36	1.106 343.60	2.277 271.15	1.113 338.07
8	1.033 174.30	1.151 347.36	1.106 343.60	2.277 271.15	1.113 338.07
9	1.033 174.30	1.151 347.36	1.106 343.60	2.277 271.15	1.113 338.07
10	1.033 174.30	1.151 347.36	1.106 343.60	2.277 271.15	1.113 338.07

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 CP-MAG PHI	W250 CP-MAG PHI	W750 CP-MAG PHI	W938 CP-MAG PHI
1	20.256 165.28	6.198 165.28	3.276 165.28	3.192 165.28
2	3.951 165.28	1.112 165.28	1.112 165.28	1.083 165.28
3	3.951 165.28	1.112 165.28	1.112 165.28	1.083 165.28
4	3.951 165.28	1.112 165.28	1.112 165.28	1.083 165.28
5	3.951 165.28	1.112 165.28	1.112 165.28	1.083 165.28
6	3.951 165.28	1.112 165.28	1.112 165.28	1.083 165.28
7	3.951 165.28	1.112 165.28	1.112 165.28	1.083 165.28
8	3.951 165.28	1.112 165.28	1.112 165.28	1.083 165.28
9	3.951 165.28	1.112 165.28	1.112 165.28	1.083 165.28
10	3.951 165.28	1.112 165.28	1.112 165.28	1.083 165.28

MODE 2 -- LEADING EDGE PLATE DATA, WALL STATIONS

FILE 129 ALPHA-MCH = 6.8 POP RUN PI 23.08  
 RUN 23 ALPHA-MCH = 6.8 O-COM 3 23.08  
 POINT 23 SIGMA = -9.2 V-REF = 199.63  
 FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

X=000  
 SUCTION

N	CPREAL	CPIMAG
1	15.051	-6.033
2	1.636	1.516
3	-.271	.428
4	-.413	.161
5	.132	.118
6	.451	.273
7	.114	.174
8	-.376	.064
9	.176	.514
10	.108	.064

X=012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	12.701	27.145	1	19.433	-7.356	1	15.051	-6.033
2	-1.039	.333	2	1.974	1.601	2	1.636	1.516
3	-1.223	.337	3	-.329	.585	3	-.271	.428
4	-.862	.274	4	-.329	.201	4	-.413	.161
5	-.924	.261	5	-.140	.161	5	.132	.118
6	.012	.120	6	-.140	.116	6	.451	.273
7	.005	.027	7	-.073	.063	7	.114	.174
8	.007	.109	8	-.073	.063	8	-.376	.064
9	-.058	.009	9	-.073	.063	9	.176	.514
10	-.058	.009	10	-.073	.063	10	.108	.064

X=070  
 SUCTION

N	CPREAL	CPIMAG
1	6.928	-2.973
2	-.755	.499
3	-.195	.995
4	-.281	.689
5	.131	.131
6	.167	.115
7	-.169	.110
8	-.162	.028
9	-.162	.028
10	-.162	.028

618



# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 109 ALPHA-MCL = 6.0 PDP RUN-PI 23.06  
 RUN 23 ALPHA-BAR = 9.5 22.98  
 POINT 2 SIGMA = -9.5 19.63  
 COMPUTED FREQUENCY = 9.08, K = .0714

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3											
X=762											
SUCTION											
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	.788	-.467	1	.554	-1.752	1	-1.612	-6.458	1	.931	5.675
2	.626	-.083	2	.422	-.399	2	.667	.531	2	2.610	-.019
3	.474	-.024	3	.391	-.657	3	.694	.605	3	-.019	-.399
4	.463	-.064	4	.128	-.068	4	.445	.187	4	-.399	-.063
5	.044	-.067	5	.529	-.075	5	.471	.232	5	-.063	.503
6	.567	-.108	6	.134	-.077	6	.069	-.073	6	-.023	-.023
7	-.143	-.087	7	-.029	-.002	7	-.067	.330	7	.079	.079
8	-.037	-.058	8	.136	.002	8	.125	.017	8	-.036	-.036
9	-.039	.068	9	.016	.019	9	.032	.010	9	-.007	.007
10	.032	.068	10	.016	.019	10	.032	.010	10	.007	.007
X=012											
PRESSURE											
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-3.862	-.194	1	3.684	.736	1	8.318	-6.021	1	-8.695	-11.308
2	.463	.937	2	.378	.728	2	.415	.729	2	.106	1.062
3	.556	.937	3	.415	.729	3	.415	.729	3	.533	1.062
4	.281	.177	4	.072	.072	4	.198	.119	4	-.268	.127
5	.268	.177	5	.072	.072	5	.198	.119	5	-.268	.127
6	.270	.182	6	.072	.072	6	.198	.119	6	-.268	.127
7	.208	.151	7	.060	.060	7	.156	.082	7	-.268	.127
8	.208	.151	8	.060	.060	8	.156	.082	8	-.268	.127
9	.159	.108	9	.103	.033	9	.097	.029	9	-.027	.122
10	.122	.017	10	.003	-.035	10	.029	.029	10	.122	.122

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. 082											
GAP FRACTION											
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-16.572	.585	1	14.347	3.169	1	4.277	-.427	1	2.423	-2.423
2	-.250	.875	2	.617	1.254	2	.923	.923	2	2.423	-2.423
3	-.420	.072	3	.100	-.050	3	.093	.093	3	2.423	-2.423
4	-.086	.126	4	.217	-.059	4	.117	.117	4	2.423	-2.423
5	-.131	.071	5	.098	-.058	5	.228	.228	5	2.423	-2.423
6	-.132	.202	6	-.068	-.058	6	.104	.104	6	2.423	-2.423
7	-.040	.100	7	.103	-.058	7	.104	.104	7	2.423	-2.423
8	.013	.013	8	.103	-.058	8	.104	.104	8	2.423	-2.423
9	.013	.013	9	.103	-.058	9	.104	.104	9	2.423	-2.423
10	.013	.013	10	.103	-.058	10	.104	.104	10	2.423	-2.423

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FILE 109 ALPHA-HCL = 6.0 POP PUN PT 23298
PUN 23 ALPHA-BAR = .5 O-COMP = 199.63
POINT 23 SIGMA = -97. V-REF K = .0714
COMPUTED FREQUENCY = 9.08,

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FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN

**BLADE NO.**

**SUCFION**

N	CP-WAG	PHI
1	16.215	159.16
2	15.330	142.83
3	15.498	137.67
4	15.957	158.92
5	15.957	132.11
6	15.622	151.53
7	15.000	135.77
8	14.717	150.50
9	14.336	184.55
10	13.666	191.01

SUC-17013

	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	0.000	0.000	1	0.000	0.000	1	0.000	0.000	1	0.000	0.000
2	2	0.000	0.000	2	0.000	0.000	2	0.000	0.000	2	0.000	0.000
3	3	0.000	0.000	3	0.000	0.000	3	0.000	0.000	3	0.000	0.000
4	4	0.000	0.000	4	0.000	0.000	4	0.000	0.000	4	0.000	0.000
5	5	0.000	0.000	5	0.000	0.000	5	0.000	0.000	5	0.000	0.000
6	6	0.000	0.000	6	0.000	0.000	6	0.000	0.000	6	0.000	0.000
7	7	0.000	0.000	7	0.000	0.000	7	0.000	0.000	7	0.000	0.000
8	8	0.000	0.000	8	0.000	0.000	8	0.000	0.000	8	0.000	0.000
9	9	0.000	0.000	9	0.000	0.000	9	0.000	0.000	9	0.000	0.000
10	10	0.000	0.000	10	0.000	0.000	10	0.000	0.000	10	0.000	0.000
11	11	0.000	0.000	11	0.000	0.000	11	0.000	0.000	11	0.000	0.000
12	12	0.000	0.000	12	0.000	0.000	12	0.000	0.000	12	0.000	0.000
13	13	0.000	0.000	13	0.000	0.000	13	0.000	0.000	13	0.000	0.000
14	14	0.000	0.000	14	0.000	0.000	14	0.000	0.000	14	0.000	0.000
15	15	0.000	0.000	15	0.000	0.000	15	0.000	0.000	15	0.000	0.000
16	16	0.000	0.000	16	0.000	0.000	16	0.000	0.000	16	0.000	0.000
17	17	0.000	0.000	17	0.000	0.000	17	0.000	0.000	17	0.000	0.000
18	18	0.000	0.000	18	0.000	0.000	18	0.000	0.000	18	0.000	0.000
19	19	0.000	0.000	19	0.000	0.000	19	0.000	0.000	19	0.000	0.000
20	20	0.000	0.000	20	0.000	0.000	20	0.000	0.000	20	0.000	0.000
21	21	0.000	0.000	21	0.000	0.000	21	0.000	0.000	21	0.000	0.000
22	22	0.000	0.000	22	0.000	0.000	22	0.000	0.000	22	0.000	0.000
23	23	0.000	0.000	23	0.000	0.000	23	0.000	0.000	23	0.000	0.000
24	24	0.000	0.000	24	0.000	0.000	24	0.000	0.000	24	0.000	0.000
25	25	0.000	0.000	25	0.000	0.000	25	0.000	0.000	25	0.000	0.000
26	26	0.000	0.000	26	0.000	0.000	26	0.000	0.000	26	0.000	0.000
27	27	0.000	0.000	27	0.000	0.000	27	0.000	0.000	27	0.000	0.000
28	28	0.000	0.000	28	0.000	0.000	28	0.000	0.000	28	0.000	0.000
29	29	0.000	0.000	29	0.000	0.000	29	0.000	0.000	29	0.000	0.000
30	30	0.000	0.000	30	0.000	0.000	30	0.000	0.000	30	0.000	0.000
31	31	0.000	0.000	31	0.000	0.000	31	0.000	0.000	31	0.000	0.000
32	32	0.000	0.000	32	0.000	0.000	32	0.000	0.000	32	0.000	0.000
33	33	0.000	0.000	33	0.000	0.000	33	0.000	0.000	33	0.000	0.000
34	34	0.000	0.000	34	0.000	0.000	34	0.000	0.000	34	0.000	0.000

# SUCIFION

N	CP-MAG	PHI
1	7.539	156.78
2	1.897	213.82
3	1.015	252.37
4	1.295	162.10
5	1.172	229.64
6	1.521	135.58
7	1.129	172.11
8	1.183	173.17
9	1.029	191.17

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 123 ALPHA-MCL = 6.0 POP RUN PT 3388  
 PUN 23 ALPHA-BAR = .5 O-CUM = 3388  
 POINT SIGMA = -97. V-REF = 199.63  
 COMPUTED FREQUENCY = 9.08 K = .0714  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=0.62 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	4.536 170.00	4.880 158.96	6.656 165.98	6.166 171.59	6.220 155.38	6.376 151.79
2	4.087 252.99	4.581 239.42	6.821 218.55	6.794 257.07	6.667 233.38	6.796 250.13
3	4.664 177.05	4.933 235.17	6.449 159.06	6.379 161.50	6.362 153.77	6.335 166.60
4	4.078 134.48	4.563 208.02	6.125 146.21	6.129 161.88	6.082 150.42	6.039 160.75
5	4.377 190.79	4.563 208.02	6.125 146.21	6.129 161.88	6.082 150.42	6.039 160.75
6	4.158 115.30	4.583 230.58	6.099 135.72	6.030 147.05	6.049 127.67	6.039 160.75
7	4.095 113.20	4.583 230.58	6.099 135.72	6.030 147.05	6.049 127.67	6.039 160.75
8	4.151 112.68	4.583 230.58	6.099 135.72	6.030 147.05	6.049 127.67	6.039 160.75
9	4.151 112.68	4.583 230.58	6.099 135.72	6.030 147.05	6.049 127.67	6.039 160.75
10	4.075 249.66	4.624 180.36	6.033 197.54	6.019 211.46	6.037 111.85	6.011 130.43
X=0.12 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	9.058 334.76	6.003 321.12	6.003 321.12	6.268 329.19	6.262 323.92	6.262 323.92
2	1.098 202.51	6.441 170.47	6.441 170.47	6.427 157.85	6.427 157.85	6.427 157.85
3	1.004 226.40	6.441 170.47	6.441 170.47	6.427 157.85	6.427 157.85	6.427 157.85
4	1.314 153.66	6.441 170.47	6.441 170.47	6.427 157.85	6.427 157.85	6.427 157.85
5	1.504 120.41	6.441 170.47	6.441 170.47	6.427 157.85	6.427 157.85	6.427 157.85
6	1.212 103.89	6.441 170.47	6.441 170.47	6.427 157.85	6.427 157.85	6.427 157.85
7	1.127 108.82	6.441 170.47	6.441 170.47	6.427 157.85	6.427 157.85	6.427 157.85
8	1.187 158.44	6.441 170.47	6.441 170.47	6.427 157.85	6.427 157.85	6.427 157.85
9	1.027 217.08	6.441 170.47	6.441 170.47	6.427 157.85	6.427 157.85	6.427 157.85
10		6.441 170.47	6.441 170.47	6.427 157.85	6.427 157.85	6.427 157.85

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 0.062	W4 0.125	W5 0.250	W7 0.750	W8 0.875	W9 0.938
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	17.487 161.38	14.691 167.52	4.981 183.81	3.268 268.91	3.268 268.91	3.151 268.91
2	9.310 174.07	1.335 164.06	1.068 158.64	1.194 162.76	1.175 162.76	1.159 162.76
3	1.222 175.75	1.222 175.75	1.194 162.76	1.194 162.76	1.175 162.76	1.159 162.76
4	1.222 175.75	1.222 175.75	1.194 162.76	1.194 162.76	1.175 162.76	1.159 162.76
5	1.222 175.75	1.222 175.75	1.194 162.76	1.194 162.76	1.175 162.76	1.159 162.76
6	1.222 175.75	1.222 175.75	1.194 162.76	1.194 162.76	1.175 162.76	1.159 162.76
7	1.222 175.75	1.222 175.75	1.194 162.76	1.194 162.76	1.175 162.76	1.159 162.76
8	1.222 175.75	1.222 175.75	1.194 162.76	1.194 162.76	1.175 162.76	1.159 162.76
9	1.222 175.75	1.222 175.75	1.194 162.76	1.194 162.76	1.175 162.76	1.159 162.76
10	1.222 175.75	1.222 175.75	1.194 162.76	1.194 162.76	1.175 162.76	1.159 162.76

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FILE 111 ALPHA-MCL = 6.0 PDP RUN.PI 23.0A
PUN 23 ALPHA-BAR = .5 C-CH22224
POINT 4 SIGMA = -9.7 VREF = 199.0A
COMPUTED FREQUENCY = 15.57, K = .1220

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FOURIER COEFFICIENTS, REAL & IMAGIN  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

**BLADE NO.**

SECRET

N	CPREAL	CPIMAG
1	14.975	-5.309
2	2.145	1.593
3	-.155	-.047
4	.009	.077
5	.309	-.329
6	.268	.011
7	-.026	.145
8	.026	-.145
9	-.258	.018

SECTION

N	CPREAL	CPIWAG	N	CPREAL	CPIWAG	N	CPREAL	CPIWAG	N	CPREAL	CPIWAG	N	CPREAL	CPIWAG	N	CPREAL	CPIWAG
1	644	27.602	1	546	12.508	1	546	12.508	1	546	12.508	1	546	12.508	1	546	12.508
2	1408	14.997	2	565	10.565	2	565	10.565	2	565	10.565	2	565	10.565	2	565	10.565
3	2468	9.244	3	573	10.320	3	573	10.320	3	573	10.320	3	573	10.320	3	573	10.320
4	4088	6.249	4	590	10.176	4	590	10.176	4	590	10.176	4	590	10.176	4	590	10.176
5	6448	4.697	5	607	10.143	5	607	10.143	5	607	10.143	5	607	10.143	5	607	10.143
6	8648	3.697	6	624	9.708	6	624	9.708	6	624	9.708	6	624	9.708	6	624	9.708
7	10848	3.097	7	642	9.422	7	642	9.422	7	642	9.422	7	642	9.422	7	642	9.422
8	12948	2.697	8	659	9.252	8	659	9.252	8	659	9.252	8	659	9.252	8	659	9.252
9	14948	2.397	9	676	9.122	9	676	9.122	9	676	9.122	9	676	9.122	9	676	9.122
10	16948	2.197	10	693	9.012	10	693	9.012	10	693	9.012	10	693	9.012	10	693	9.012
11	18948	2.097	11	710	8.912	11	710	8.912	11	710	8.912	11	710	8.912	11	710	8.912
12	20948	1.997	12	727	8.822	12	727	8.822	12	727	8.822	12	727	8.822	12	727	8.822
13	22948	1.897	13	744	8.742	13	744	8.742	13	744	8.742	13	744	8.742	13	744	8.742
14	24948	1.797	14	761	8.672	14	761	8.672	14	761	8.672	14	761	8.672	14	761	8.672
15	26948	1.697	15	778	8.612	15	778	8.612	15	778	8.612	15	778	8.612	15	778	8.612
16	28948	1.597	16	795	8.562	16	795	8.562	16	795	8.562	16	795	8.562	16	795	8.562
17	30948	1.497	17	812	8.522	17	812	8.522	17	812	8.522	17	812	8.522	17	812	8.522
18	32948	1.397	18	829	8.482	18	829	8.482	18	829	8.482	18	829	8.482	18	829	8.482
19	34948	1.297	19	846	8.452	19	846	8.452	19	846	8.452	19	846	8.452	19	846	8.452
20	36948	1.197	20	863	8.422	20	863	8.422	20	863	8.422	20	863	8.422	20	863	8.422
21	38948	1.097	21	880	8.392	21	880	8.392	21	880	8.392	21	880	8.392	21	880	8.392
22	40948	0.997	22	897	8.362	22	897	8.362	22	897	8.362	22	897	8.362	22	897	8.362
23	42948	0.897	23	914	8.332	23	914</										

SUCF 2020

N	CREAL	CPIWAG
1	7.259	-1.955
2	-1.181	-.022
3	-.224	-.002
4	-.225	-.153
5	-.023	-.172
6	-.023	-.149
7	-.023	-.233
8	-.023	-.080
9	-.031	-.090

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FILE 111 ALPHA-MCL = 6.0 PUP RUN PT 23.08
PUN 2 ALPHA-BAP = .5 O-COMP = .32224
POINT 4 SIGMA = -91.0 V-REF = 299.08
      COMPTD FREQUENCY = 15.57, W = .1229

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FOURIER COEFFICIENTS, REAL & IMAGIN  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

**BLADE NO.**

X=SUCTION	N										M										P									
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10
CPREAL	1.559	1.126	0.624	0.127	0.026	0.013	0.005	0.002	0.001	0.000	6.546	8.844	10.387	11.499	12.155	12.499	12.677	12.730	12.766	12.787	2.837	2.706	2.525	2.374	2.250	2.153	2.079	2.023	1.979	1.941
CPIMAG	0.085	0.108	0.138	0.167	0.192	0.215	0.236	0.254	0.269	0.283	6.781	6.366	5.971	5.605	5.266	4.953	4.665	4.404	4.169	3.958	0.937	0.989	1.059	1.137	1.219	1.294	1.361	1.419	1.468	1.509
CPREAL	4.625	4.314	4.009	3.715	3.431	3.157	2.893	2.639	2.395	2.161	7.944	7.272	6.653	6.085	5.566	5.095	4.671	4.293	3.958	3.664	6.735	6.379	6.035	5.703	5.383	5.074	4.776	4.489	4.213	3.947
CPIMAG	0.085	0.108	0.138	0.167	0.192	0.215	0.236	0.254	0.269	0.283	6.781	6.366	5.971	5.605	5.266	4.953	4.665	4.404	4.169	3.958	0.937	0.989	1.059	1.137	1.219	1.294	1.361	1.419	1.468	1.509
N	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10

  

X=PRESSURE	N										M										P									
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10
CPREAL	4.609	3.522	2.578	1.766	1.066	0.526	0.226	0.106	0.056	0.036	6.360	6.976	7.577	8.159	8.716	9.246	9.746	10.216	10.656	11.066	2.837	2.706	2.525	2.374	2.250	2.153	2.079	2.023	1.979	1.941
CPIMAG	0.085	0.108	0.138	0.167	0.192	0.215	0.236	0.254	0.269	0.283	6.781	6.366	5.971	5.605	5.266	4.953	4.665	4.404	4.169	3.958	0.937	0.989	1.059	1.137	1.219	1.294	1.361	1.419	1.468	1.509
CPREAL	4.609	3.522	2.578	1.766	1.066	0.526	0.226	0.106	0.056	0.036	7.944	7.272	6.653	6.085	5.566	5.095	4.671	4.293	3.958	3.664	6.735	6.379	6.035	5.703	5.383	5.074	4.776	4.489	4.213	3.947
CPIMAG	0.085	0.108	0.138	0.167	0.192	0.215	0.236	0.254	0.269	0.283	6.781	6.366	5.971	5.605	5.266	4.953	4.665	4.404	4.169	3.958	0.937	0.989	1.059	1.137	1.219	1.294	1.361	1.419	1.468	1.509
N	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10

\*\*\* WALL PRESSURE, PER RADIAN \*\*\*

CONFIDENTIAL

GAP	.032		.125		.250		.750		.875		.938	
	N	CPI MAG	N	CPI MAG	N	CPI MAG	N	CPI MAG	N	CPI MAG	N	CPI MAG
1	16	29	1	14	2	69	1	33	2	39	1	30
2	13	23	2	36	3	89	2	90	3	39	2	39
3	10	20	3	36	4	85	3	90	4	39	3	39
4	8	18	4	36	5	85	4	90	5	39	4	39
5	7	17	5	36	6	85	5	90	6	39	5	39
6	6	16	6	36	7	85	6	90	7	39	6	39
7	5	15	7	36	8	85	7	90	8	39	7	39
8	4	14	8	36	9	85	8	90	9	39	8	39
9	3	13	9	36	10	85	9	90	10	39	9	39
10	2	12	10	36			10	90			10	39

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 111 ALPHA-MCL = 6.0 PDP RUN-PT 22.08  
PUN ALPHA-BAB = 22.24  
POINT C-COMP = 199.08  
COMPUTED FREQUENCY = 15.57, K = .1229  
FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

SECTION  
SUCTION

N	CP-MAG	PHI
1	15.888	160.48
2	.161	32.61
3	.173	186.94
4	.317	174.71
5	.069	34.05
6	.147	72.69
7	.065	160.97
8	.061	162.72
9		
10		

SECTION  
SUCTION

N	CP-MAG	PHI
1	31.727	150.46
2	1.443	308.91
3	.337	316.32
4	.322	329.27
5	.334	35.08
6	.191	42.11
7	.121	333.42
8		
9		
10		

SECTION  
SUCTION

N	CP-MAG	PHI
1	7.517	164.92
2	1.180	161.08
3	.806	275.84
4	.271	115.61
5	.085	27.62
6	.023	27.18
7	.038	17.20
8	.031	18.46
9		
10		

9

7

6

5

N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.989	19.86	1	13.989	19.86
2	.599	191.98	2	.599	191.98
3	.175	291.82	3	.175	291.82
4	.108	77.66	4	.108	77.66
5	.129	21.80	5	.129	21.80
6	.117	160.32	6	.117	160.32
7	.046	132.20	7	.046	132.20
8	.016	13.51	8	.016	13.51
9			9		
10			10		

N	CP-MAG	PHI	N	CP-MAG	PHI
1	19.221	149.66	1	19.221	149.66
2	.835	126.29	2	.835	126.29
3	.191	253.82	3	.191	253.82
4	.191	253.82	4	.191	253.82
5	.050	67.62	5	.050	67.62
6	.014	101.25	6	.014	101.25
7	.014	14.68	7	.014	14.68
8			8		
9			9		
10			10		

N	CP-MAG	PHI	N	CP-MAG	PHI
1	17.289	168.64	1	17.289	168.64
2	.519	175.82	2	.519	175.82
3	.389	18.69	3	.389	18.69
4	.422	10.42	4	.422	10.42
5	.118	251.08	5	.118	251.08
6	.076	255.75	6	.076	255.75
7	.076	125.99	7	.076	125.99
8	.021	225.47	8	.021	225.47
9			9		
10			10		

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FILE 11 ALPHA-MCL = 6.0 POP RUN:PT 23.48
DUN 23 ALPHA-BAR = .5 Q-COMP = .32228
POINT 4 SIGMA = -9% V-REF = 109.08
      COMPLETED FREQUENCY = 15.57% K = .1220

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BLADE NO. 3 4 5 6 7 8 9

SUC	764	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	6.719	166.97	1.077	1.68	1.23	4.5	6.719	166.97	1.077	1.68	1.23	4.5	6.719	166.97	1.077	1.68
2	6.541	179.36	1.164	1.68	1.23	4.5	6.541	179.36	1.164	1.68	1.23	4.5	6.541	179.36	1.164	1.68
3	6.428	175.16	1.164	1.68	1.23	4.5	6.428	175.16	1.164	1.68	1.23	4.5	6.428	175.16	1.164	1.68
4	6.255	175.16	1.164	1.68	1.23	4.5	6.255	175.16	1.164	1.68	1.23	4.5	6.255	175.16	1.164	1.68
5	6.077	175.16	1.164	1.68	1.23	4.5	6.077	175.16	1.164	1.68	1.23	4.5	6.077	175.16	1.164	1.68
6	5.916	175.16	1.164	1.68	1.23	4.5	5.916	175.16	1.164	1.68	1.23	4.5	5.916	175.16	1.164	1.68
7	5.751	175.16	1.164	1.68	1.23	4.5	5.751	175.16	1.164	1.68	1.23	4.5	5.751	175.16	1.164	1.68
8	5.586	175.16	1.164	1.68	1.23	4.5	5.586	175.16	1.164	1.68	1.23	4.5	5.586	175.16	1.164	1.68
9	5.421	175.16	1.164	1.68	1.23	4.5	5.421	175.16	1.164	1.68	1.23	4.5	5.421	175.16	1.164	1.68
10	5.256	175.16	1.164	1.68	1.23	4.5	5.256	175.16	1.164	1.68	1.23	4.5	5.256	175.16	1.164	1.68
11	5.091	175.16	1.164	1.68	1.23	4.5	5.091	175.16	1.164	1.68	1.23	4.5	5.091	175.16	1.164	1.68
12	4.926	175.16	1.164	1.68	1.23	4.5	4.926	175.16	1.164	1.68	1.23	4.5	4.926	175.16	1.164	1.68
13	4.761	175.16	1.164	1.68	1.23	4.5	4.761	175.16	1.164	1.68	1.23	4.5	4.761	175.16	1.164	1.68
14	4.596	175.16	1.164	1.68	1.23	4.5	4.596	175.16	1.164	1.68	1.23	4.5	4.596	175.16	1.164	1.68
15	4.431	175.16	1.164	1.68	1.23	4.5	4.431	175.16	1.164	1.68	1.23	4.5	4.431	175.16	1.164	1.68
16	4.266	175.16	1.164	1.68	1.23	4.5	4.266	175.16	1.164	1.68	1.23	4.5	4.266	175.16	1.164	1.68
17	4.101	175.16	1.164	1.68	1.23	4.5	4.101	175.16	1.164	1.68	1.23	4.5	4.101	175.16	1.164	1.68
18	3.936	175.16	1.164	1.68	1.23	4.5	3.936	175.16	1.164	1.68	1.23	4.5	3.936	175.16	1.164	1.68
19	3.771	175.16	1.164	1.68	1.23	4.5	3.771	175.16	1.164	1.68	1.23	4.5	3.771	175.16	1.164	1.68
20	3.606	175.16	1.164	1.68	1.23	4.5	3.606	175.16	1.164	1.68	1.23	4.5	3.606	175.16	1.164	1.68
21	3.441	175.16	1.164	1.68	1.23	4.5	3.441	175.16	1.164	1.68	1.23	4.5	3.441	175.16	1.164	1.68
22	3.276	175.16	1.164	1.68	1.23											

WALL NO. CAP. FRACTION	W3 -062	W4 -125	W5 -250	W7 -750	W8 -875	W9 -938
1	17.916	15.236	5.289	2.413	2.229	2.133
2	17.916	15.166	5.177	2.127	2.021	1.931
3	17.916	15.197	5.107	2.177	2.056	1.965
4	17.916	15.229	5.059	2.044	1.911	1.820
5	17.916	15.269	5.097	2.031	1.899	1.807
6	17.916	15.301	5.089	2.038	1.899	1.807
7	17.916	15.327	5.089	2.053	1.899	1.807
8	17.916	15.351	5.022	2.026	1.899	1.807
9	17.916	15.378	5.022	2.026	1.899	1.807
10	17.916	15.401	5.022	2.026	1.899	1.807
11	17.916	15.426	5.022	2.026	1.899	1.807
12	17.916	15.451	5.022	2.026	1.899	1.807
13	17.916	15.476	5.022	2.026	1.899	1.807
14	17.916	15.501	5.022	2.026	1.899	1.807
15	17.916	15.526	5.022	2.026	1.899	1.807
16	17.916	15.551	5.022	2.026	1.899	1.807
17	17.916	15.576	5.022	2.026	1.899	1.807
18	17.916	15.601	5.022	2.026	1.899	1.807
19	17.916	15.626	5.022	2.026	1.899	1.807
20	17.916	15.651	5.022	2.026	1.899	1.807
21	17.916	15.676	5.022	2.026	1.899	1.807
22	17.916	15.701	5.022	2.026	1.899	1.807
23	17.916	15.726	5.022	2.026	1.899	1.807
24	17.916	15.751	5.022	2.026	1.899	1.807
25	17.916	15.776	5.022	2.026	1.899	1.807
26	17.916	15.801	5.022	2.026	1.899	1.807
27	17.916	15.826	5.022	2.026	1.899	1.807
28	17.916	15.851	5.022	2.026	1.899	1.807
29	17.916	15.876	5.022	2.026	1.899	1.807
30	17.916	15.901	5.022	2.026	1.899	1.807
31	17.916	15.926	5.022	2.026	1.899	1.807
32	17.916	15.951	5.022	2.026	1.899	1.807
33	17.916	15.976	5.022	2.026	1.899	1.807
34	17.916	16.001	5.022	2.026	1.899	1.807
35	17.916	16.026	5.022	2.026	1.899	1.807
36	17.916	16.051	5.022	2.026	1.899	1.807
37	17.916	16.076	5.022	2.026	1.899	1.807
38	17.916	16.101	5.022	2.026	1.899	1.807
39	17.916	16.126	5.022	2.026	1.899	1.807
40	17.916	16.151	5.022	2.026	1.899	1.807
41	17.916	16.176	5.022	2.026	1.899	1.807
42	17.916	16.201	5.022	2.026	1.899	1.807
43	17.916	16.226	5.022	2.026	1.899	1.807
44	17.916	16.251	5.022	2.026	1.899	1.807
45	17.916	16.276	5.022	2.026	1.899	1.807
46	17.916	16.301	5.022	2.026	1.899	1.807
47	17.916	16.326	5.022	2.026	1.899	1.807
48	17.916	16.351	5.022	2.026	1.899	1.807

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 113 ALPHA-MCL = 6.0 POP RUN PT 73.12  
 RUN 23 ALPHA-BAR = 6.5 Q-COMP = 72.68  
 POINT 6 SIGMA = -90. V-REF = 198.58  
 COMPUTED FREQUENCY = 19.17, K = .1516

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE=705  
 SUCTION

N	CPREAL	CPIMAG
1	16.525	-6.568
2	1.629	-.659
3	-.135	-.285
4	-.014	-.086
5	-.042	-.161
6	-.031	-.127
7	-.070	-.092
8	-.018	-.054
9	-.010	-.066
10	-.044	-.068

XE=712  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	16.990	26.830	1	16.168	10.035	1	11.670	17.693	1	-6.884	-11.571
2	-1.014	-4.410	2	1.631	-.492	2	-.738	-.605	2	-.056	-.046
3	-.643	-2.427	3	-.224	-.179	3	-.185	-.185	3	-.013	-.017
4	-.110	-.387	4	-.015	-.005	4	-.093	-.552	4	-.021	-.051
5	-.233	-.324	5	-.016	-.044	5	-.386	-.079	5	-.076	-.081
6	-.123	-.169	6	-.017	-.044	6	-.117	-.150	6	-.092	-.083
7	-.124	-.123	7	-.011	-.044	7	-.007	-.106	7	-.001	-.001
8	-.123	-.123	8	-.011	-.044	8	-.007	-.106	8	-.001	-.001
9	-.123	-.123	9	-.011	-.044	9	-.007	-.106	9	-.001	-.001
10	-.123	-.123	10	-.011	-.044	10	-.007	-.106	10	-.001	-.001

XE=837  
 SUCTION

N	CPREAL	CPIMAG
1	7.408	-2.215
2	-1.110	-.581
3	-.182	-.107
4	-.117	-.114
5	-.064	-.026
6	-.036	-.019
7	-.008	-.001
8	-.001	-.001
9	-.001	-.001
10	-.001	-.001



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FILE-113 ALPHA-MCL = 6.0 POP RUN PT = 330.13
      23 ALPHA-BAR = .5 O-COMP = 320.54
      6 ALPHA-SIGMA = -97.0 V-REF = 198.58
      POINT COMPUTED FREQUENCY = 19.17, K = .1516

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

**BLADE NO.**

**SUCFION**

3		4		5		6		7		9	
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	2.125	6.388	1	5.466	5.97	1	-5.339	2.682	1	3.668	7.195
2	2.253	6.072	2	5.776	5.321	2	0.922	0.069	2	0.661	7.110
3	2.553	5.707	3	5.511	4.221	3	0.070	0.113	3	0.051	7.176
4	2.553	5.106	4	5.011	3.647	4	0.019	0.041	4	0.005	7.176
5	2.056	4.995	5	4.317	1.589	5	-0.019	0.040	5	-0.005	7.057
6	1.199	4.055	6	3.017	0.709	6	0.019	0.115	6	0.020	7.057
7	1.059	3.273	7	2.057	0.219	7	0.017	0.235	7	0.050	7.057
8	0.597	2.339	8	1.057	0.019	8	0.014	0.359	8	0.017	7.057
9	0.057	1.145	9	0.006	0.010	9	0.014	0.359	9	0.017	7.057
10	0.057	0.145	10	0.006	0.010	10	0.014	0.359	10	0.017	7.057
11	0.057	0.145	11	0.006	0.010	11	0.014	0.359	11	0.017	7.057
12	0.057	0.145	12	0.006	0.010	12	0.014	0.359	12	0.017	7.057
13	0.057	0.145	13	0.006	0.010	13	0.014	0.359	13	0.017	7.057
14	0.057	0.145	14	0.006	0.010	14	0.014	0.359	14	0.017	7.057
15	0.057	0.145	15	0.006	0.010	15	0.014	0.359	15	0.017	7.057
16	0.057	0.145	16	0.006	0.010	16	0.014	0.359	16	0.017	7.057
17	0.057	0.145	17	0.006	0.010	17	0.014	0.359	17	0.017	7.057
18	0.057	0.145	18	0.006	0.010	18	0.014	0.359	18	0.017	7.057
19	0.057	0.145	19	0.006	0.010	19	0.014	0.359	19	0.017	7.057
20	0.057	0.145	20	0.006	0.010	20	0.014	0.359	20	0.017	7.057
21	0.057	0.145	21	0.006	0.010	21	0.014	0.359	21	0.017	7.057
22	0.057	0.145	22	0.006	0.010	22	0.014	0.359	22	0.017	7.057
23	0.057	0.145	23	0.006	0.010	23	0.014	0.359	23	0.017	7.057
24	0.057	0.145	24	0.006	0.010	24	0.014	0.359	24	0.017	7.057
25	0.057	0.145	25	0.006	0.010	25	0.014	0.359	25	0.017	7.057
26	0.057	0.145	26	0.006	0.010	26	0.014	0.359	26	0.017	7.057
27	0.057	0.145	27	0.006	0.010	27	0.014	0.359	27	0.017	7.057
28	0.057	0.145	28	0.006	0.010	28	0.014	0.359	28	0.017	7.057
29	0.057	0.145	29	0.006	0.010	29	0.014	0.359	29	0.017	7.057
30	0.057	0.145	30	0.006	0.010	30	0.014	0.359	30	0.017	7.057
31	0.057	0.145	31	0.006	0.010	31	0.014	0.359	31	0.017	7.057
32	0		32	0		32	0		32	0	

\*\*\* WALL PRESSURE, PER RADIAN \*\*\*

**GAP FRACTION**

[illegible]

ORIGINAL PAGE 10  
OF FOUR

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 113 ALPHA-MCL = 6.0 POP FUN PT 23.12  
RUN 23 ALPHA-BAR = .5 O-COMP = .2264  
POINT 6 SIGMA = -97. V-REF = 198.52  
COMPUTED FREQUENCY = 19.17, M = .1-16  
CUT LIASED PHASE ANGLE

FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=902  
SUCTION

N	CP-MAG	PHI
1	17.782	155.33
2	17.757	22.028
3	17.757	61.338
4	17.757	99.56
5	17.757	227.77
6	17.757	287.86
7	17.757	287.93
8	17.757	287.93
9	17.757	287.93
10	17.757	287.93

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	17.757	147.66	1	17.757	147.66	1	17.757	147.66
2	17.757	133.11	2	17.757	133.11	2	17.757	133.11
3	17.757	100.99	3	17.757	100.99	3	17.757	100.99
4	17.757	100.99	4	17.757	100.99	4	17.757	100.99
5	17.757	100.99	5	17.757	100.99	5	17.757	100.99
6	17.757	100.99	6	17.757	100.99	6	17.757	100.99
7	17.757	100.99	7	17.757	100.99	7	17.757	100.99
8	17.757	100.99	8	17.757	100.99	8	17.757	100.99
9	17.757	100.99	9	17.757	100.99	9	17.757	100.99
10	17.757	100.99	10	17.757	100.99	10	17.757	100.99

X=902  
SUCTION

N	CP-MAG	PHI
1	17.782	155.33
2	17.757	22.028
3	17.757	61.338
4	17.757	99.56
5	17.757	227.77
6	17.757	287.86
7	17.757	287.93
8	17.757	287.93
9	17.757	287.93
10	17.757	287.93

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 113 ALPHA-MCL = 6.0 POP RUN-PI 23.12  
 RUN 23 ALPHA-BAR = 32.08  
 POINT 6 SIGMA = -9.5 CP-COMP = 190.58  
 COMPUTED FREQUENCY = 19.17, M = .1516  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	1	2	3	4	5	6	7	9
SUC	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG
1	1	6.260	160.90	1	5.049	167.97	1	8.376
2	2	2.336	171.79	2	6.003	171.60	2	9.075
3	3	2.553	177.36	3	6.093	171.60	3	9.075
4	4	2.553	177.36	4	6.093	171.60	4	9.075
5	5	2.553	177.36	5	6.093	171.60	5	9.075
6	6	2.553	177.36	6	6.093	171.60	6	9.075
7	7	2.553	177.36	7	6.093	171.60	7	9.075
8	8	2.553	177.36	8	6.093	171.60	8	9.075
9	9	2.553	177.36	9	6.093	171.60	9	9.075
10	10	2.553	177.36	10	6.093	171.60	10	9.075
PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG
1	1	8.182	325.81	1	7.864	325.71	1	11.621
2	2	3.775	191.05	2	2.279	161.45	2	11.192
3	3	4.119	267.44	3	1.332	119.56	3	11.192
4	4	1.127	168.00	4	0.021	119.56	4	11.192
5	5	1.042	34.35	5	0.021	119.56	5	11.192
6	6	0.079	259.83	6	0.021	119.56	6	11.192
7	7	0.036	42.24	7	0.021	119.56	7	11.192
8	8	0.086	349.57	8	0.021	119.56	8	11.192
9	9	0.057	66.05	9	0.021	119.56	9	11.192
10	10	0.057	66.05	10	0.021	119.56	10	11.192

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	1	2	3	4	5	6	7	9
GAP FRACTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG
1	1	16.988	152.38	1	4.205	152.38	1	1.454
2	2	2.276	122.14	2	2.064	122.14	2	1.454
3	3	1.478	146.90	3	0.068	122.14	3	1.454
4	4	0.063	146.90	4	0.068	122.14	4	1.454
5	5	0.114	146.90	5	0.068	122.14	5	1.454
6	6	0.114	146.90	6	0.068	122.14	6	1.454
7	7	0.114	146.90	7	0.068	122.14	7	1.454
8	8	0.114	146.90	8	0.068	122.14	8	1.454
9	9	0.114	146.90	9	0.068	122.14	9	1.454
10	10	0.114	146.90	10	0.068	122.14	10	1.454

**MOLINS**  
**CEO = X**

## 631

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 106 ALPHA-MCL = 6.0 POP RUN-PT 22.08  
 RUN 22 ALPHA-BAR = 1.5 O-COMP = 11022  
 POINT 4 SIGMA = -45 V-REF = 201.53  
 COMPUTED FREQUENCY = 15.41, K = .1201

FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

9

7

6

5

4

3

N	CP-MAG	PHI
1	13.756	145.72
2	2.392	355.46
3	.273	70.58
4	.164	38.34
5	.256	208.99
6	.143	37.03
7	.083	37.89
8	.171	98.35
9	.041	38.30
10	.052	122.61

X=.012 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	23.491	132.21	1	16.809	146.11	1	15.047	153.29	1	12.704	137.61	1	13.127	133.94	1	9.770	150.24	
2	1.860	272.21	2	.627	357.10	2	1.602	6.16	2	.265	293.94	2	1.407	327.99	2	1.412	108.84	
3	.391	133.11	3	.259	65.47	3	1.490	36.16	3	.839	205.85	3	1.381	327.99	3	1.412	108.84	
4	.382	168.89	4	.175	35.02	4	.507	223.53	4	.220	205.85	4	.404	314.78	4	.209	230.57	
5	.421	323.97	5	.266	215.62	5	.487	311.53	5	.024	295.96	5	.040	314.78	5	.068	196.06	
6	.210	328.04	6	.164	311.88	6	.287	305.87	6	.017	221.17	6	.221	169.90	6	.028	160.85	
7	.443	57.57	7	.089	345.57	7	.242	308.63	7	.072	267.54	7	.065	138.08	7	.248	164.49	
8	.120	82.70	8	.211	30.33	8	.216	123.27	8	.043	109.57	8	.081	192.08	8	.138	148.49	
9	.144	176.16	9	.052	37.03	9	.054	154.07	9	.021	103.99	9	.128	104.69	9	.101	185.30	
10	.076	348.33	10	.064	117.02	10	.063	154.07	10	.021	103.99	10	.024	197.49	10	.051	17.78	

X=.030  
 SUCTION

N	CP-MAG	PHI
1	5.446	150.41
2	.330	1.08
3	.123	227.72
4	.030	338.19
5	.030	199.28
6	.105	350.79
7	.031	351.72
8	.031	104.42
9	.031	340.72
10	.031	96.67

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 106 ALPHA-MCL = 6.0 POP RUN PT 22.08  
 RUN 22 ALPHA-BAR = .55 Q-COMP = .33022  
 POINT 4 SIGMA = -.45 V-REF = 201.53  
 4 COMPUTED FREQUENCY = 15.41, K = .1201  
 4 UNBIASED PHASE ANGLE

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
XE-062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	4.850 157.79	3.756 161.31	4.239 151.37	4.536 147.60	5.531 140.64	1.123 139.54
2	1.552 270.94	1.649 260.70	1.370 260.08	1.519 255.81	1.270 251.20	1.123 249.77
3	.289 147.56	.078 178.89	.186 164.28	.224 165.05	.163 162.07	1.123 159.48
4	.258 129.03	.208 198.20	.135 177.64	.192 278.58	.016 163.33	1.123 157.21
5	.077 99.29	.079 16.43	.033 266.07	.034 256.58	.016 163.33	1.123 155.93
6	.194 65.87	.129 17.13	.132 324.01	.129 281.20	.090 159.75	1.123 153.31
7	.083 127.30	.132 120.26	.132 120.26	.112 128.50	.107 159.39	1.123 151.93
8	.095 221.51	.030 349.44	.041 158.51	.115 131.99	.016 151.51	1.123 149.05
9	.055 30.76	.017 93.14	.006 158.51	.006 131.99	.016 151.51	1.123 147.21
10						1.123 145.37
XE-012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	6.657 307.07	5.629 332.09	6.782 313.66	9.558 277.41	5.589 277.41	1.123 277.41
2	1.374 269.79	1.486 295.59	1.212 279.08	1.782 279.08	1.181 277.41	1.123 277.41
3	.349 193.18	.136 180.27	.123 180.27	1.308 222.40	1.177 222.40	1.123 277.41
4	.187 270.21	.107 260.47	.124 252.31	1.199 222.40	1.199 222.40	1.123 277.41
5	.062 287.61	.099 304.74	.026 256.31	1.199 222.40	1.199 222.40	1.123 277.41
6	.029 318.06	.078 347.94	.116 338.17	1.199 222.40	1.199 222.40	1.123 277.41
7	.080 151.20	.078 347.94	.116 338.17	1.199 222.40	1.199 222.40	1.123 277.41
8	.054 157.82	.078 347.94	.116 338.17	1.199 222.40	1.199 222.40	1.123 277.41
9	.067 195.01	.023 317.58	.009 102.65	1.199 222.40	1.199 222.40	1.123 277.41
10						1.123 277.41

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 N CP-MAG PHI	W4 N CP-MAG PHI	W5 N CP-MAG PHI	W7 N CP-MAG PHI	W8 N CP-MAG PHI	W9 N CP-MAG PHI
1	13.129 146.13	11.320 152.84	3.356 159.12	1.265 205.12	1.010 217.28	1.123 228.00
2	.085 182.88	1.939 176.62	1.981 168.94	2.012 172.41	1.010 217.28	1.123 228.00
3	.268 174.94	.135 163.46	.253 169.85	.235 172.41	1.010 217.28	1.123 228.00
4	.208 147.19	.207 156.08	.161 169.85	.188 172.41	1.010 217.28	1.123 228.00
5	.086 107.97	.207 156.08	.161 169.85	.188 172.41	1.010 217.28	1.123 228.00
6	.168 134.11	.237 152.84	.200 169.85	.188 172.41	1.010 217.28	1.123 228.00
7	.113 124.94	.147 131.19	.140 139.23	.188 172.41	1.010 217.28	1.123 228.00
8	.044 117.90	.086 100.09	.052 129.43	.060 133.04	1.010 217.28	1.123 228.00
9			.009 229.43	.005 219.19	1.010 217.28	1.123 228.00
10					1.010 217.28	1.123 228.00

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 200 ALPHA-MCL = 6.0 PDP RUN-PT 22.10  
 RUN 22 ALPHA-BAR = 4.5 O-COMP = 32882  
 POINT 6 SIGMA = 4.5 V-REF = 201.10  
 COMPUTED FREQUENCY = 19.04 K = .1487

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3  
 X=.005  
 SUCTION

N CPREAL CPIMAG  
 1 -8.880 -11.031  
 2 -1.232 -.153  
 3 .594 -.329  
 4 .137 -.004  
 5 .067 .128  
 6 -.080 -.004  
 7 .069 .069  
 8 .036 .033  
 9 -.031 -.001  
 10 .003 -.056

X=.012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-1.072	-22.760	1	-10.655	-13.431	1	-15.405	-2.948	1	-8.770	8.435
2	-.667	125	2	-1.451	153	2	-.371	.832	2	-.484	-.183
3	-.050	553	3	.696	303	3	-1.148	-.243	3	-.123	-.340
4	-.249	410	4	.165	132	4	-.298	-.343	4	-.028	-.093
5	-.119	385	5	-.096	101	5	-.011	-.071	5	-.023	-.045
6	-.118	222	6	-.067	101	6	-.190	-.066	6	-.009	-.052
7	-.003	232	7	.011	149	7	.059	-.007	7	-.009	-.042
8	-.037	209	8	-.021	114	8	.113	-.007	8	-.035	-.017
9	-.190	153	9	-.013	106	9	-.068	-.005	9	-.038	-.036
10		84	10		65	10		.041	10	-.029	.053

X=.030  
 SUCTION

N CPREAL CPIMAG  
 1 -2.266 -4.006  
 2 -.364 -.203  
 3 .180 -.203  
 4 .045 .079  
 5 .033 .046  
 6 -.063 .004  
 7 .046 .057  
 8 .003 -.005  
 9 -.017 -.016  
 10 -.007 -.025



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FILE 200 ALPHA-MCL = 6.0 PDP RUN-PT 22-10
RUN 22 ALPHA-BAP = .5 Q-COMP = 32882
POINT 6 ALPHA-SIGMA = -45. V-REF = 201.10
COMPUTED FREQUENCY = 19.04, K = .1487

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
COMPUTE

X=062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	.502	-4.735	1	-1.405	-3.596	1	-3.570	-1.323	1	-3.354	2.065	1	2.331	4.990
2	2	-.063	-.261	2	-.935	-.112	2	-.911	-.265	2	-.663	-.355	2	-.808	-.458
3	3	.052	.447	3	.220	-.247	3	.071	-.645	3	-.160	-.355	3	-.205	-.176
4	4	.152	.092	4	.084	.082	4	.051	-.004	4	-.035	.117	4	-.141	.108
5	5	.040	-.098	5	.016	.045	5	-.026	.062	5	-.008	.029	5	-.019	.008
6	6	.070	.017	6	-.063	.054	6	-.084	.053	6	-.094	.017	6	-.038	.038
7	7	.175	-.060	7	.074	.000	7	.040	.018	7	-.028	.033	7	.060	.027
8	8	-.013	-.112	8	-.004	.000	8	.015	-.016	8	-.014	-.022	8	.021	.017
9	9	-.019	-.136	9	-.001	-.005	9	.020	.026	9	-.015	.030	9	.002	.017
10	10	-.173	-.022	10	-.042	.015	10	-.020	.026	10	-.015	.030	10	.019	.010

  

X=012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	.207	6.228	1	5.564	-.460	1	4.673	-.983	1	2.407	-8.532	1	2.331	4.990
2	2	-1.077	-.208	2	-.873	-.323	2	-.886	-.335	2	-.742	-.152	2	-.579	-.390
3	3	.177	.273	3	.007	.170	3	-.045	-.349	3	-.060	-.240	3	-.177	-.464
4	4	.018	.241	4	.058	.009	4	-.010	.147	4	-.054	-.240	4	-.177	-.464
5	5	.006	.111	5	.031	.006	5	-.016	.028	5	-.032	-.018	5	-.099	-.035
6	6	-.027	.069	6	-.058	.037	6	-.086	.028	6	-.043	.008	6	-.109	-.020
7	7	.000	.149	7	.051	.013	7	-.014	.071	7	-.041	.023	7	-.109	-.020
8	8	-.015	.039	8	-.021	.006	8	-.014	.001	8	-.031	.005	8	-.051	.014
9	9	-.020	.025	9	-.049	-.002	9	-.032	.007	9	-.038	.014	9	-.051	.014
10	10	-.039	.024	10	-.069	-.002	10	-.032	.007	10	-.038	.014	10	-.051	.014

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	GAP FRACTION		W3		W4		W5		W7		W8		W9	
	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL
1	-9.008	6.463	9.222	4.553	2.607	8.54	1.723	-1.519	-1.025	-1.170	1	-1.046	-1.170	
2	-1.415	6.078	-1.196	4.068	-1.076	4.25	-1.063	-1.073	-1.025	-1.057	2	-1.046	-1.057	
3	-0.024	6.066	0.772	4.39	1.307	4.54	1.136	1.175	1.354	1.189	3	1.049	1.189	
4	-0.08	6.332	0.222	4.45	0.407	1.77	0.68	0.62	1.03	0.07	4	0.07	0.07	
5	-0.08	6.037	0.178	4.35	0.17	0.05	0.68	0.125	1.03	0.11	5	0.07	0.11	
6	-0.125	6.081	0.045	4.30	0.62	0.22	1.17	0.105	0.65	0.10	6	0.07	0.10	
7	-0.06	6.042	0.055	4.39	0.14	0.30	0.63	0.17	0.65	0.125	7	0.07	0.125	
8	-0.028	6.016	0.048	4.38	0.10	0.32	0.19	0.105	0.62	0.125	8	0.07	0.125	
9	-0.028	6.049	0.016	4.38	0.028	0.22	0.029	0.035	0.62	0.035	9	0.07	0.035	
10	-0.006	6.049	0.016	4.38	0.028	0.22	0.029	0.035	0.62	0.035	10	0.07	0.035	

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 200 ALPHA-MCL = 6.0 PDP RUN.PT 22.10  
 RUN 22 ALPHA-BAR = .5 O-COMP = .32882  
 POINT 6 SIGMA = -45. V-REF = 201.10  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.  
 X=.005  
 SUCTION

3	4	5	6	7	9
N CP-MAG	PHI	N CP-MAG	PHI	N CP-MAG	PHI
1 14.162	141.17	1 14.162	141.17	1 14.162	141.17
2 1.241	352.93	2 1.241	352.93	2 1.241	352.93
3 .679	61.01	3 .679	61.01	3 .679	61.01
4 .137	332.39	4 .137	332.39	4 .137	332.39
5 .080	322.53	5 .080	322.53	5 .080	322.53
6 .098	134.78	6 .098	134.78	6 .098	134.78
7 .049	42.20	7 .049	42.20	7 .049	42.20
8 .031	92.18	8 .031	92.18	8 .031	92.18
9 .057	267.39	9 .057	267.39	9 .057	267.39
10		10		10	

X=.012  
 SUCTION

N CP-MAG	PHI	N CP-MAG	PHI	N CP-MAG	PHI	N CP-MAG	PHI	N CP-MAG	PHI
1 22.785	132.30	1 17.183	141.68	1 15.685	145.63	1 12.168	136.11	1 10.208	145.20
2 .678	259.38	2 1.459	353.99	2 1.914	24.00	2 .517	330.23	2 .762	115.50
3 .555	121.84	3 .165	66.44	3 1.174	33.02	3 .362	106.51	3 .283	115.51
4 .403	121.90	4 .146	33.28	4 .020	48.99	4 .097	165.94	4 .160	169.45
5 .112	101.14	5 .047	34.56	5 .203	250.52	5 .012	147.81	5 .060	169.45
6 .209	270.84	6 .112	147.67	6 .059	38.58	6 .043	348.09	6 .124	249.97
7 .138	119.62	7 .058	56.34	7 .113	33.58	7 .066	223.54	7 .039	249.97
8 .208	246.12	8 .067	281.51	8 .072	324.95	8 .052	61.66	8 .039	116.63
9		9		9		9		9	
10		10		10		10		10	

X=.030  
 SUCTION

N CP-MAG	PHI	N CP-MAG	PHI	N CP-MAG	PHI	N CP-MAG	PHI	N CP-MAG	PHI
1 4.602	150.51	1 4.602	150.51	1 4.602	150.51	1 4.602	150.51	1 4.602	150.51
2 .271	41.53	2 .271	41.53	2 .271	41.53	2 .271	41.53	2 .271	41.53
3 .091	60.59	3 .091	60.59	3 .091	60.59	3 .091	60.59	3 .091	60.59
4 .057	324.06	4 .057	324.06	4 .057	324.06	4 .057	324.06	4 .057	324.06
5 .063	140.61	5 .063	140.61	5 .063	140.61	5 .063	140.61	5 .063	140.61
6 .026	297.76	6 .026	297.76	6 .026	297.76	6 .026	297.76	6 .026	297.76
7 .021	140.56	7 .021	140.56	7 .021	140.56	7 .021	140.56	7 .021	140.56
8		8		8		8		8	
9		9		9		9		9	
10		10		10		10		10	

MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 200 ALPHA-MCL = 6.0 FOP RUN-PT 22.10  
 RUN 22 ALPHA-BAR = .5 Q-COMP = 32882  
 POINT 6 SIGMA = -45. V-REF = 201.10  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO: 3										7										9									
X=.062 SUCTION																													
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	968	152.60	1	3.801	158.66	1	3.807	155.34	1	3.938	148.38	1	5.094	138.79	1	4.355	151.98	1	3.355	151.98	1	3.355	151.98	1	3.355	151.98	1	3.355	151.98
2	998	185.17	2	3.950	170.48	2	1.240	132.72	2	3.938	148.38	2	5.094	138.79	2	4.355	151.98	2	3.355	151.98	2	3.355	151.98	2	3.355	151.98	2	3.355	151.98
3	949	229.34	3	3.361	137.48	3	1.274	150.01	3	3.938	148.38	3	5.094	138.79	3	4.355	151.98	3	3.355	151.98	3	3.355	151.98	3	3.355	151.98	3	3.355	151.98
4	178	337.43	4	1.177	44.26	4	0.51	248.14	4	3.938	148.38	4	5.094	138.79	4	4.355	151.98	4	3.355	151.98	4	3.355	151.98	4	3.355	151.98	4	3.355	151.98
5	105	337.43	5	0.483	340.31	5	0.67	263.13	5	3.938	148.38	5	5.094	138.79	5	4.355	151.98	5	3.355	151.98	5	3.355	151.98	5	3.355	151.98	5	3.355	151.98
6	105	337.43	6	0.81	340.31	6	0.66	263.13	6	3.938	148.38	6	5.094	138.79	6	4.355	151.98	6	3.355	151.98	6	3.355	151.98	6	3.355	151.98	6	3.355	151.98
7	113	116.04	7	0.81	113.54	7	0.19	319.58	7	3.938	148.38	7	5.094	138.79	7	4.355	151.98	7	3.355	151.98	7	3.355	151.98	7	3.355	151.98	7	3.355	151.98
8	113	116.04	8	0.05	113.54	8	0.24	184.19	8	3.938	148.38	8	5.094	138.79	8	4.355	151.98	8	3.355	151.98	8	3.355	151.98	8	3.355	151.98	8	3.355	151.98
9	114	151.10	9	0.05	168.78	9	0.33	37.48	9	3.938	148.38	9	5.094	138.79	9	4.355	151.98	9	3.355	151.98	9	3.355	151.98	9	3.355	151.98	9	3.355	151.98
10	174	277.19	10	0.44	340.46	10	0.33	37.48	10	3.938	148.38	10	5.094	138.79	10	4.355	151.98	10	3.355	151.98	10	3.355	151.98	10	3.355	151.98	10	3.355	151.98

X=.012 PRESSURE																													
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	6.344	304.03	1	5.583	310.27	1	6.831	313.16	1	8.865	299.25	1	6.831	313.16	1	2.355	151.98	1	2.355	151.98	1	2.355	151.98	1	2.355	151.98	1	2.355	151.98
2	1.087	281.95	2	3.709	106.06	2	3.152	194.83	2	8.865	299.25	2	3.152	194.83	2	2.355	151.98	2	2.355	151.98	2	2.355	151.98	2	2.355	151.98	2	2.355	151.98
3	3.225	257.95	3	3.709	145.45	3	3.152	277.36	3	8.865	299.25	3	3.152	277.36	3	2.355	151.98	3	2.355	151.98	3	2.355	151.98	3	2.355	151.98	3	2.355	151.98
4	2.422	257.95	4	1.700	272.40	4	3.152	93.80	4	8.865	299.25	4	3.152	93.80	4	2.355	151.98	4	2.355	151.98	4	2.355	151.98	4	2.355	151.98	4	2.355	151.98
5	1.174	257.95	5	0.422	263.12	5	3.152	60.46	5	8.865	299.25	5	3.152	60.46	5	2.355	151.98	5	2.355	151.98	5	2.355	151.98	5	2.355	151.98	5	2.355	151.98
6	1.174	257.95	6	0.57	58.12	6	3.152	197.80	6	8.865	299.25	6	3.152	197.80	6	2.355	151.98	6	2.355	151.98	6	2.355	151.98	6	2.355	151.98	6	2.355	151.98
7	1.174	257.95	7	0.57	58.12	7	3.152	197.80	7	8.865	299.25	7	3.152	197.80	7	2.355	151.98	7	2.355	151.98	7	2.355	151.98	7	2.355	151.98	7	2.355	151.98
8	0.72	141.94	8	0.21	182.68	8	3.152	219.42	8	8.865	299.25	8	3.152	219.42	8	2.355	151.98	8	2.355	151.98	8	2.355	151.98	8	2.355	151.98	8	2.355	151.98
9	0.43	141.94	9	0.21	182.68	9	3.152	219.42	9	8.865	299.25	9	3.152	219.42	9	2.355	151.98	9	2.355	151.98	9	2.355	151.98	9	2.355	151.98	9	2.355	151.98
10	0.46	121.37	10	0.49	92.44	10	3.152	192.24	10	8.865	299.25	10	3.152	192.24	10	2.355	151.98	10	2.355	151.98	10	2.355	151.98	10	2.355	151.98	10	2.355	151.98

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO: 3										7										9									
GAP FRACTION																													
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	11.749	146.61	1	10.284	153.73	1	2.744	161.86	1	1.127	229.79	1	1.127	229.79	1	1.127	229.79	1	1.127	229.79	1	1.127	229.79	1	1.127	229.79	1	1.127	229.79
2	1.417	183.44	2	1.188	176.60	2	1.172	205.95	2	1.172	205.95	2	1.172	205.95	2	1.172	205.95	2	1.172	205.95	2	1.172	205.95	2	1.172	205.95	2	1.172	205.95
3	1.417	183.44	3	1.188	176.60	3	1.172	205.95	3	1.172	205.95	3	1.172	205.95	3	1.172	205.95	3	1.172	205.95	3	1.172	205.95	3	1.172	205.95	3	1.172	205.95
4	1.417	183.44	4	1.188	176.60	4	1.172	205.95	4	1.172	205.95	4	1.172	205.95	4	1.172	205.95	4	1.172	205.95	4	1.172	205.95	4	1.172	205.95	4	1.172	205.95
5	1.417	183.44	5	1.188	176.60	5	1.172	205.95	5	1.172	205.95	5	1.172	205.95	5	1.172	205.95	5	1.172	205.95	5	1.172	205.95	5	1.172	205.95	5	1.172	205.95
6	1.417	183.44	6	1.188	176.60	6	1.172	205.95	6	1.172	205.95	6	1.172	205.95	6	1.172	205.95	6	1.172	205.95	6	1.172	205.95	6	1.172	205.95	6	1.172	205.95
7	1.417	183.44	7	1.188	176.60	7	1.172	205.95	7	1.172	205.95	7	1.172	205.95	7	1.172	205.95	7	1.172	205.95	7	1.172	205.95	7	1.172	205.95	7	1.172	205.95
8	1.417	183.44	8	1.188	176.60	8	1.172	205.95	8	1.172	205.95	8	1.172	205.95	8	1.172	205.95	8	1.172	205.95	8	1.172	205.95	8	1.172	205.95	8	1.172	205.95
9	1.417	183.44	9	1.188	176.60	9	1.172	205.95	9	1.172	205.95	9	1.172	205.95	9	1.172	205.95	9	1.172	205.95	9	1.172	205.95	9	1.172	205.95	9	1.172	205.95
10	1.417	183.44	10	1.188	176.60	10	1.172	205.95	10	1.172	205.95	10	1.172	205.95	10	1.172	205.95	10	1.172	205.95	10	1.172	205.95	10	1.172	205.95	10	1.172	205.95

\*\*\* ADD, P X.RUNSO

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 91 ALPHA-MCL = 6.0 PDP PUN.PT 20.05  
 PUN 29 ALPHA-BAR = .5 O-COMP = .32125  
 POINT 2 SIGMA = 0. V-REF = 198.75  
 COMPUTED FREQUENCY = 9.09, K = .0719

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE=005  
 SUCTION

N CPREAL CPIMAG  
 1-11.295 4.123  
 2 1.220 1.256  
 3 -.749 -.188  
 4 -.478 .407  
 5 -.071 .229  
 6 -.062 -.009  
 7 .173 -.229  
 8 .037 -.225  
 9 .094 -.106  
 10 .123

XE=012  
 SUCTION

N CPREAL CPIMAG  
 1-17.368 9.160  
 2 .006 .439  
 3 -.731 -.064  
 4 .088 .075  
 5 .968 .075  
 6 .317 .164  
 7 .371 .020  
 8 .067 .154  
 9 .171 .075  
 10 .154 .018

XE=010  
 SUCTION

N CPREAL CPIMAG  
 1-5.025 1.794  
 2 .091 -.113  
 3 .169 -.865  
 4 .323 .191  
 5 .051 .295  
 6 .074 .285  
 7 .111 .038  
 8 .036 .173  
 9 .058 .173  
 10 .054 .098

N CPREAL CPIMAG  
 1-8.867 1.593  
 2 .033 .950  
 3 .057 .375  
 4 .149 .121  
 5 .013 .087  
 6 .033 .166  
 7 .124 .003  
 8 .007 .095  
 9 .010 .051  
 10 .049 .048

N CPREAL CPIMAG  
 1-12.811 1.769  
 2 1.351 .771  
 3 .029 .434  
 4 .233 .990  
 5 .004 .317  
 6 .093 .298  
 7 .187 .028  
 8 .053 .091  
 9 .021 .230  
 10 .060 .030

N CPREAL CPIMAG  
 1-8.953 3.197  
 2 .282 .330  
 3 .337 .792  
 4 .176 .135  
 5 .008 .063  
 6 .003 .252  
 7 .012 .162  
 8 .016 .045  
 9 .063 .150  
 10 .046 .140

N CPREAL CPIMAG  
 1-7.693 3.197  
 2 .149 .330  
 3 .510 .792  
 4 .938 .135  
 5 .106 .063  
 6 .025 .252  
 7 .137 .162  
 8 .020 .045  
 9 .099 .150  
 10 .046 .140

N CPREAL CPIMAG  
 1-7.693 3.197  
 2 .149 .330  
 3 .510 .792  
 4 .938 .135  
 5 .106 .063  
 6 .025 .252  
 7 .137 .162  
 8 .020 .045  
 9 .099 .150  
 10 .046 .140

N CPREAL CPIMAG  
 1-7.693 3.197  
 2 .149 .330  
 3 .510 .792  
 4 .938 .135  
 5 .106 .063  
 6 .025 .252  
 7 .137 .162  
 8 .020 .045  
 9 .099 .150  
 10 .046 .140

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 91 ALPHA-XCL = 6.0 PDP RUN.PT 20.05  
 RUN 20 ALPHA-BAR = .5 0-COMP = .32125  
 POINT 22 SIGMA = 0. V-REF = 198.75  
 COMPUTED FREQUENCY = 9.09, K = .0719

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=.062  
 SUCTION

	3	4	5	6	7	9
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-4.010	1.353	1.398	1	-3.750	1.180
2	-3.460	1.055	1.282	2	-3.49	1.192
3	-3.460	1.055	1.282	3	-3.49	1.192
4	-3.460	1.055	1.282	4	-3.49	1.192
5	-3.460	1.055	1.282	5	-3.49	1.192
6	-3.460	1.055	1.282	6	-3.49	1.192
7	-3.460	1.055	1.282	7	-3.49	1.192
8	-3.460	1.055	1.282	8	-3.49	1.192
9	-3.460	1.055	1.282	9	-3.49	1.192
10	-3.460	1.055	1.282	10	-3.49	1.192
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	
1	4.267	-2.649	1	4.307	-2.628	
2	3.76	-1.127	2	3.69	-1.215	
3	3.210	-1.896	3	3.64	-1.968	
4	2.504	-3.66	4	3.26	-3.49	
5	1.97	-5.275	5	2.42	-5.49	
6	1.92	-6.79	6	1.88	-7.76	
7	1.92	-8.097	7	1.88	-9.092	
8	1.92	-9.180	8	1.88	-10.092	
9	1.92	-10.059	9	1.88	-10.092	
10	1.92	-10.059	10	1.88	-10.092	
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	
1	4.267	-2.649	1	4.307	-2.628	
2	3.76	-1.127	2	3.69	-1.215	
3	3.210	-1.896	3	3.64	-1.968	
4	2.504	-3.66	4	3.26	-3.49	
5	1.97	-5.275	5	2.42	-5.49	
6	1.92	-6.79	6	1.88	-7.76	
7	1.92	-8.097	7	1.88	-9.092	
8	1.92	-9.180	8	1.88	-10.092	
9	1.92	-10.059	9	1.88	-10.092	
10	1.92	-10.059	10	1.88	-10.092	

X=.012  
 PRESSURE

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.  
 GAP FRACTION

WALL NO. GAP FRACTION	W3 .062		W4 .125		W5 .250		W7 .750		W8 .875		W9 .938	
	N	CPREAL CPIMAG	N	CPREAL CPIMAG	N	CPREAL CPIMAG	N	CPREAL CPIMAG	N	CPREAL CPIMAG	N	CPREAL CPIMAG
1	-11.307	1.791	1-10.687	1.516	1-3.084	1.504	-707.336	1.336	-517.258	1.258	-391.190	1.190
2	-3.359	1.498	-0097	1.190	0895	1.011	1336	1.011	1565	1.011	1669	1.011
3	-2.677	1.236	-0337	1.060	0515	1.011	1336	1.011	1565	1.011	1669	1.011
4	-2.477	1.011	1966	1.011	0448	1.011	1336	1.011	1565	1.011	1669	1.011
5	-2.477	1.011	2533	1.011	1344	1.011	1336	1.011	1565	1.011	1669	1.011
6	-2.477	1.011	3633	1.011	2320	1.011	1336	1.011	1565	1.011	1669	1.011
7	-2.477	1.011	0444	1.011	0212	1.011	1336	1.011	1565	1.011	1669	1.011
8	-2.477	1.011	0344	1.011	0077	1.011	1336	1.011	1565	1.011	1669	1.011
9	-2.477	1.011	0337	1.011	0077	1.011	1336	1.011	1565	1.011	1669	1.011
10	-2.477	1.011	0337	1.011	0077	1.011	1336	1.011	1565	1.011	1669	1.011

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 91 ALPHA-MCL = 6.0 POP RUN.PT 20.05  
 RUN 20 ALPHA-BAR = .5 Q-COMP = .32125  
 POINT 2 SIGMA = 0. V-REF = 196.75  
 COMPUTED FREQUENCY = 9.09, K = .0719

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

9

7

6

5

4

X=.012  
 SUCTION

N	CP-MAG	PHI
1	12.024	159.95
2	1.750	45.83
3	.860	229.44
4	.513	158.48
5	.413	99.95
6	.238	105.14
7	.173	356.86
8	.232	99.20
9	.244	247.33
10	.162	40.61

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	19.635	152.19	1	12.834	176.57	1	9.069	167.33	1	9.507	160.35	1	7.699	177.59			
2	.736	186.58	2	1.564	273.85	2	.451	85.00	2	.393	120.36	2	.418	99.00			
3	.121	136.45	3	.542	215.45	3	.379	278.09	3	.801	244.33	3	.475	305.67			
4	.104	127.58	4	.313	191.58	4	.192	141.52	4	.302	159.33	4	.466	160.16			
5	.172	152.89	5	.189	107.28	5	.089	74.76	5	.187	91.80	5	.352	172.59			
6	.150	153.89	6	.105	351.35	6	.169	358.89	6	.252	131.89	6	.247	96.55			
7	.186	203.63	7	.231	264.57	7	.125	259.44	7	.270	103.31	7	.150	331.63			
8	.155	173.21	8	.067	333.49	8	.052	259.44	8	.054	256.87	8	.111	332.87			
9			9			9			9	.153	65.67	9	.083	123.87			
10			10			10			10			10					

X=.013  
 SUCTION

N	CP-MAG	PHI
1	5.335	160.35
2	.145	108.97
3	.091	284.05
4	.376	149.42
5	.299	80.19
6	.117	75.33
7	.128	340.98
8	.182	106.27
9	.136	251.46
10		46.04

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 91 ALPHA-MCL = 6.0 PDP RUN.PT 20.05  
 RUN 20 ALPHA-BAR = .5 Q-COMP = .32125  
 POINT 2 SIGMA = 0. V-REF = 198.75  
 COMPUTED FREQUENCY = 9.09, K = .0719  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	4.232 161.36	3.630 162.39	4.385 163.91	4.004 166.71	3.931 162.53	3.413 170.82
2	3.344 159.16	3.670 160.88	3.865 158.30	4.428 154.42	3.398 162.80	3.429 155.61
3	3.719 157.13	4.821 152.35	3.796 148.57	4.440 151.48	3.740 166.46	3.825 156.59
4	3.171 147.15	3.489 152.35	4.458 148.57	4.337 151.48	4.440 165.63	4.005 160.55
5	3.719 147.15	3.489 152.35	4.458 148.57	4.337 151.48	4.440 165.63	4.005 160.55
6	3.719 147.15	3.489 152.35	4.458 148.57	4.337 151.48	4.440 165.63	4.005 160.55
7	3.719 147.15	3.489 152.35	4.458 148.57	4.337 151.48	4.440 165.63	4.005 160.55
8	3.719 147.15	3.489 152.35	4.458 148.57	4.337 151.48	4.440 165.63	4.005 160.55
9	3.719 147.15	3.489 152.35	4.458 148.57	4.337 151.48	4.440 165.63	4.005 160.55
10	3.719 147.15	3.489 152.35	4.458 148.57	4.337 151.48	4.440 165.63	4.005 160.55

X=.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	5.022 324.16	3.755 340.51	4.480 343.21	5.043 328.65	3.906 356.94	3.906 356.94
2	5.022 324.16	3.755 340.51	4.480 343.21	5.043 328.65	3.906 356.94	3.906 356.94
3	5.022 324.16	3.755 340.51	4.480 343.21	5.043 328.65	3.906 356.94	3.906 356.94
4	5.022 324.16	3.755 340.51	4.480 343.21	5.043 328.65	3.906 356.94	3.906 356.94
5	5.022 324.16	3.755 340.51	4.480 343.21	5.043 328.65	3.906 356.94	3.906 356.94
6	5.022 324.16	3.755 340.51	4.480 343.21	5.043 328.65	3.906 356.94	3.906 356.94
7	5.022 324.16	3.755 340.51	4.480 343.21	5.043 328.65	3.906 356.94	3.906 356.94
8	5.022 324.16	3.755 340.51	4.480 343.21	5.043 328.65	3.906 356.94	3.906 356.94
9	5.022 324.16	3.755 340.51	4.480 343.21	5.043 328.65	3.906 356.94	3.906 356.94
10	5.022 324.16	3.755 340.51	4.480 343.21	5.043 328.65	3.906 356.94	3.906 356.94

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	11.448 471.00	10.794 171.92	3.125 170.71	7.716 189.09	5.787 206.56	5.172 220.94
2	9.773 454.20	9.668 190.43	3.686 174.59	7.336 185.51	5.757 206.56	5.172 220.94
3	9.773 454.20	9.668 190.43	3.686 174.59	7.336 185.51	5.757 206.56	5.172 220.94
4	9.773 454.20	9.668 190.43	3.686 174.59	7.336 185.51	5.757 206.56	5.172 220.94
5	9.773 454.20	9.668 190.43	3.686 174.59	7.336 185.51	5.757 206.56	5.172 220.94
6	9.773 454.20	9.668 190.43	3.686 174.59	7.336 185.51	5.757 206.56	5.172 220.94
7	9.773 454.20	9.668 190.43	3.686 174.59	7.336 185.51	5.757 206.56	5.172 220.94
8	9.773 454.20	9.668 190.43	3.686 174.59	7.336 185.51	5.757 206.56	5.172 220.94
9	9.773 454.20	9.668 190.43	3.686 174.59	7.336 185.51	5.757 206.56	5.172 220.94
10	9.773 454.20	9.668 190.43	3.686 174.59	7.336 185.51	5.757 206.56	5.172 220.94

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 93 ALPHA-MCL = 6.0 POP RUN.PT 20.07  
RUN 20 ALPHA-BAR = .5 O-COMP = .32006  
POINT 4 SIGMA = 0. V-REF = 198.37  
COMPUTED FREQUENCY = 15.54, K = .1231

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
SUCTION

N	CPREAL	CPIMAG
1	-9.099	3.329
2	.149	.384
3	.121	-.022
4	.073	.085
5	.064	-.076
6	-.031	-.016
7	-.100	.119
8	-.019	.053
9	.002	-.008
10	.020	.037

X=.012  
SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-13.787	10.279	1	-8.701	1.531	1	-9.653	2.659
2	.420	-.428	2	-.142	-.108	2	.196	-.846
3	-.906	.110	3	-.038	-.073	3	-.070	-.123
4	.125	.014	4	-.046	-.032	4	-.088	.228
5	.203	-.623	5	-.002	-.022	5	-.220	-.002
6	.404	-.107	6	.036	.022	6	.059	.151
7	.203	.226	7	.015	.086	7	-.039	-.039
8	-.083	-.039	8	.023	-.009	8	-.023	-.009
9	-.086	.154	9	.049	-.018	9	.102	.092
10		.061	10		.018	10		.070

X=.030  
SUCTION

N	CPREAL	CPIMAG
1	-3.515	1.734
2	.072	-.503
3	.086	-.080
4	.126	.094
5	.057	-.245
6	-.017	.016
7	-.017	.042
8	-.016	-.012
9	-.009	-.023
10		



# OCWT PERIODICITY TEST MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 93 ALPHA-MCL = 6.0 PDP RUN.PT 20.07  
 RUN 20 ALPHA-BAR = .5 Q-COMP = .32006  
 POINT 4 SIGMA = 0. V-REF = 198.37  
 COMPUTED FREQUENCY = 15.54, K = .1231

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	5	6	7	9
X=.062 SUCTION	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG
1	-2.727 2.564	-3.238 1.475	-3.131 1.244	-3.515 1.461	-3.591 .449
2	.336 -.421	.262 -.406	.224 -.351	.280 -.351	.322 -.112
3	-.243 .051	-.003 .009	-.085 .047	-.130 .079	.013 -.087
4	.118 -.203	.101 -.069	.113 .026	.120 .155	.046 .039
5	.048 .018	-.004 .011	.029 .015	.122 .003	.008 .041
6	.088 .123	-.018 .096	.006 .055	.003 .024	.021 .046
7	-.030 .031	-.017 .075	.039 .019	.027 .007	-.040 .025
8	-.097 .050	-.010 .024	-.011 .025	-.027 .030	-.062 .036
9	.067 -.014	.028 -.023	.038 .033	.064 .048	.062 .036
10					
X=.012 PRESSURE	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG
1	4.104 -1.704	3.754 .016	4.665 .088	5.313 .348	5.221 .226
2	.144 -.284	.317 -.357	.303 -.081	.348 -.161	.226 -.089
3	.261 .164	.059 .088	.031 .031	.164 -.036	.210 -.089
4	.125 .028	.157 .059	.099 .011	.101 .122	.332 .106
5	-.054 .072	.068 .023	.054 .045	.030 .128	.041 .078
6	-.055 .010	.072 .004	-.065 -.025	.009 .060	-.078 .041
7	.137 -.026	.072 .052	-.030 .023	.023 .060	.036 .044
8	.045 .049	.053 .036	-.030 .016	.052 .060	.041 .036
9	-.002 -.060	.018 -.002	.010 -.010	.023 .023	-.036 .044
10	-.038 -.002	-.002 .011	.010 .010	.010 .023	.044 .036

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938
N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG	N CPREAL CPIMAG
1-10	524	1.648	-2.138	1.192	.282	.325
2	.207	-.388	.356	-.475	.430	.025
3	-.335	.000	-.048	.099	.156	.187
4	.289	.132	.183	.083	.034	.039
5	-.076	-.016	.013	.015	.045	.074
6	.045	.016	.016	.017	.080	.019
7	.008	.116	.016	.077	.084	.019
8	.009	.031	.056	.081	.032	.072
9	-.024	.063	.010	-.015	-.084	-.020
10	.053		.059	.050	.046	.043

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 93 ALPHA-MCL = 6.0 PDP RUN.PT 20.07  
 RUN 20 ALPHA-BAR = .5 O-COMP = .32006  
 POINT 4 SIGMA = 0. V-REF = 198.37  
 COMPUTED FREQUENCY = 15.54, K = .1231

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

N	CP-MAG	PHI
1	9.689	159.90
2	.519	147.75
3	.123	349.51
4	.112	49.19
5	.099	309.85
6	.035	207.39
7	.155	130.10
8	.056	110.04
9	.013	315.81
10	.043	61.53

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	17.196	143.29	1	11.995	162.55	1	12.367	171.74	1	8.834	170.02
2	.600	314.66	2	.610	50.57	2	.783	30.59	2	.179	37.29
3	.913	171.05	3	.180	341.03	3	.687	150.03	3	.082	242.64
4	.128	6.53	4	.150	57.00	4	.256	295.25	4	.034	57.67
5	.666	280.53	5	.150	302.90	5	.199	254.66	5	.089	228.94
6	.229	322.23	6	.058	287.25	6	.161	18.07	6	.025	85.70
7	.462	291.24	7	.151	120.99	7	.210	78.30	7	.096	68.15
8	.202	291.13	8	.074	191.26	8	.116	116.30	8	.058	74.80
9	.118	43.12	9	.021	294.72	9	.079	224.10	9	.025	338.45
10	.118	43.12	10	.058	59.90	10	.107	34.07	10	.052	20.45

X=.030  
 SUCTION

N	CP-MAG	PHI
1	9.919	153.74
2	.508	278.11
3	.117	317.19
4	.157	36.62
5	.031	321.91
6	.021	123.86
7	.050	136.73
8	.045	110.64
9	.013	241.72
10	.032	44.98

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	10.012	164.60	1	10.012	164.60	1	8.676	176.75	1	8.676	176.75
2	.858	279.81	2	.858	279.81	2	.406	277.89	2	.406	277.89
3	.366	160.26	3	.366	160.26	3	.184	277.89	3	.184	277.89
4	.327	107.92	4	.327	107.92	4	.037	96.78	4	.037	96.78
5	.367	321.58	5	.367	321.58	5	.104	99.86	5	.104	99.86
6	.220	179.55	6	.220	179.55	6	.066	153.23	6	.066	153.23
7	.162	68.61	7	.162	68.61	7	.093	104.58	7	.093	104.58
8	.036	222.33	8	.036	222.33	8	.056	288.73	8	.056	288.73
9	.023	170.88	9	.023	170.88	9	.055	288.73	9	.055	288.73
10	.138	41.83	10	.138	41.83	10	.086	334.68	10	.086	334.68

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 93 ALPHA-MCL = 6.0 PDP RUN-PT 20.07  
 RUN 20 ALPHA-BAR = .5 Q-COMP = .32006  
 POINT 4 SIGMA = 0. V-REF = 19.37  
 COMPUTED FREQUENCY = 15.54, K = .1231

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
X=.062	1	3.743	136.77	1	2.745	145.48	1	3.558	155.51	1	3.370	158.33	1	3.806	157.93	1	3.619	172.87
SUCTION	2	3.379	108.63	2	3.335	121.61	2	4.955	209.10	2	4.176	302.55	2	3.554	100.90	2	3.441	320.88
	3	3.248	168.14	3	3.009	107.11	3	4.158	132.42	3	4.097	151.38	3	3.275	146.90	3	3.441	280.53
	4	3.121	12.04	4	3.125	20.34	4	3.124	35.42	4	3.141	31.53	4	3.163	159.94	4	3.093	29.36
	5	3.246	20.24	5	3.085	306.01	5	3.080	319.69	5	3.041	310.33	5	3.123	332.71	5	3.073	159.70
	6	3.051	20.47	6	3.122	251.92	6	3.015	128.47	6	3.065	126.31	6	3.163	172.87	6	3.013	159.06
	7	3.152	54.29	7	3.098	100.50	7	3.055	194.75	7	3.071	103.27	7	3.057	189.31	7	3.082	131.07
	8	3.044	134.92	8	3.077	102.50	8	3.064	127.49	8	3.013	122.87	8	3.037	154.92	8	3.026	235.52
	9	3.109	152.92	9	3.010	118.51	9	3.034	135.18	9	3.056	32.13	9	3.078	34.92	9	3.072	30.19
	10	3.068	346.53	10	3.036	38.84	10	3.046	33.22	10	3.056	32.13	10	3.078	34.92	10	3.072	30.19
X=.012	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
PRESSURE	1	4.444	337.45	1	3.754	24	1	4.666	1.08	1	4.666	1.08	1	5.470	345.20	1	5.296	9.62
	2	3.18	296.95	2	3.477	11.55	2	3.527	305.01	2	3.527	305.01	2	3.384	335.20	2	3.318	90.93
	3	3.008	132.75	3	3.067	55.84	3	3.094	17.58	3	3.094	17.58	3	3.147	349.67	3	3.150	114.44
	4	3.028	126.48	4	3.068	359.03	4	3.055	11.15	4	3.055	11.15	4	3.160	393.87	4	3.052	150.94
	5	3.000	170.08	5	3.033	188.89	5	3.033	192.94	5	3.046	153.37	5	3.037	323.67	5	3.055	179.75
	6	3.035	190.69	6	3.038	144.14	6	3.072	158.29	6	3.072	158.29	6	3.079	331.15	6	3.089	152.48
	7	3.037	132.41	7	3.048	145.60	7	3.064	208.71	7	3.064	208.71	7	3.079	331.15	7	3.089	152.48
	8	3.067	268.41	8	3.018	186.27	8	3.034	259.55	8	3.034	259.55	8	3.079	331.15	8	3.089	152.48
	9	3.038	182.79	9	3.011	197.82	9	3.011	259.55	9	3.011	259.55	9	3.079	331.15	9	3.089	152.48
	10	3.038	182.79	10	3.011	197.82	10	3.011	259.55	10	3.011	259.55	10	3.079	331.15	10	3.089	152.48

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	W3			W4			W5			W7			W8			W9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
GAP FRACTION	1	10.652	171.10	1	9.954	169.77	1	2.748	150.86	1	964	79.32	1	964	73.07	1	964	70.24
	2	3.750	296.07	2	3.277	280.54	2	3.531	106.83	2	577	311.02	2	614	313.36	2	583	313.36
	3	3.355	179.97	3	3.385	128.47	3	3.110	115.80	3	113	78.02	3	127	313.36	3	114	313.36
	4	3.318	24.56	4	3.041	270.86	4	3.021	124.25	4	213	24.85	4	176	313.36	4	214	313.36
	5	3.088	220.07	5	3.032	16.01	5	3.021	44.61	5	58	182.00	5	105	35.16	5	270	35.16
	6	3.116	86.33	6	3.077	80.01	6	3.099	127.79	6	85	154.47	6	103	35.16	6	270	35.16
	7	3.039	127.37	7	3.093	108.89	7	3.099	124.76	7	84	147.66	7	103	35.16	7	270	35.16
	8	3.039	127.37	8	3.093	108.89	8	3.099	124.76	8	84	147.66	8	103	35.16	8	270	35.16
	9	3.039	127.37	9	3.093	108.89	9	3.099	124.76	9	84	147.66	9	103	35.16	9	270	35.16
	10	3.039	127.37	10	3.093	108.89	10	3.099	124.76	10	84	147.66	10	103	35.16	10	270	35.16

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 95 ALPHA-MCL = 6.0 POP RUN-PT 20.09  
 RUN 20 ALPHA-BAR = .5 Q-COMP = .32332  
 POINT 6 SIGMA = 0. V-REF = .19940  
 8 COMPUTED FREQUENCY = 19.04, K = .1500

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

9

7

6

5

4

N CPREAL CPIMAG

1 -9.577 1.806  
 2 .192 .349  
 3 -.125 .136  
 4 -.060 .027  
 5 -.020 .138  
 6 .007 .042  
 7 .020 .043  
 8 .034 .023  
 9 -.020 .056  
 10 .012 .039

X=.012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-13.787	9.994	1	-11.887	1.898	1	-13.225	.636	1	-9.966	1.966	1	-9.600	1.363	1	-9.600	1.363
2	-1.162	.040	2	-1.281	.393	2	-.860	.578	2	-.357	.210	2	-.292	-.388	2	-.292	-.388
3	-1.354	.033	3	-.145	.107	3	-.222	.415	3	-.357	.210	3	-.292	-.388	3	-.292	-.388
4	.354	-.033	4	-.352	-.003	4	-.193	-.080	4	-.292	.210	4	-.292	-.388	4	-.292	-.388
5	.028	-.045	5	-.341	.161	5	-.095	.064	5	-.054	.011	5	-.054	.011	5	-.054	.011
6	.093	.110	6	-.010	-.065	6	-.032	.160	6	-.163	.084	6	-.163	.084	6	-.163	.084
7	.269	.049	7	-.031	-.065	7	-.009	.022	7	-.027	-.001	7	-.027	-.001	7	-.027	-.001
8	-.017	-.131	8	-.016	-.064	8	-.000	-.031	8	-.066	.001	8	-.066	.001	8	-.066	.001
9	-.083	-.046	9	-.011	-.043	9	-.013	.018	9	-.030	.021	9	-.030	.021	9	-.030	.021
10			10			10			10			10			10		

X=.030  
 SUCTION

N CPREAL CPIMAG  
 1 -3.936 .581  
 2 -.020 .100  
 3 .047 .055  
 4 .002 .073  
 5 .098 .109  
 6 .020 .025  
 7 .029 .002  
 8 .007 .021  
 9 .000 .011  
 10

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 95 ALPHA-MCL = 6.0 PDP RUN.PT 20.09  
 RUN 20 ALPHA-BAR = .5 O-COMP = .32332  
 POINT 6 SIGMA = 0. V-REF = 199.40  
 COMPUTED FREQUENCY = 19.04, K = .1500

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9						
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-3.237	1.707	-2.955	1	-3.979	.275	1	-3.914	.119	1	-4.426	-.621
2	-3.094	1.057	-2.114	2	-3.168	-.233	2	-.150	-.161	2	-.081	-.051
3	-3.280	2.017	-1.112	3	-1.198	-.203	3	-.144	-.141	3	-.107	-.055
4	-3.115	1.147	-0.058	4	-1.166	-.105	4	-.091	-.082	4	-.077	-.020
5	-3.046	1.079	0.004	5	-0.047	.079	5	-.034	-.022	5	-.051	-.006
6	-3.005	1.110	0.017	6	-0.020	.021	6	-.072	-.034	6	-.049	-.039
7	-3.125	1.103	0.041	7	-0.081	-.002	7	-.003	-.030	7	-.007	-.042
8	-3.102	1.017	0.035	8	-0.034	-.006	8	0.003	-.022	8	-.007	-.004
9	-3.141	1.054	0.007	9	-0.010	-.002	9	0.003	-.016	9	-.000	-.004
10	-3.098	1.117	0.008	10	-0.001	-.002	10	0.003	-.023	10	-.000	-.004
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	3.004	-2.672	3.064	1	3.064	-.880	1	4.037	-1.132	1	4.325	-2.592
2	-3.308	1.183	-1.165	2	-1.165	-.139	2	-.176	-.218	2	-.166	-.108
3	-3.141	1.072	-1.047	3	-1.047	-.152	3	-.010	-.153	3	-.146	-.073
4	-3.042	1.202	-0.144	4	-0.144	-.080	4	0.012	-.127	4	-.051	-.023
5	-3.054	1.010	0.005	5	0.005	.012	5	-.032	-.029	5	-.083	-.007
6	-3.040	1.089	0.071	6	0.071	-.035	6	0.058	-.031	6	-.108	-.004
7	-3.021	1.016	0.047	7	0.047	0.000	7	0.054	-.000	7	-.065	-.023
8	-3.096	1.078	0.029	8	0.029	-.015	8	0.045	-.029	8	-.038	-.034
9	-3.018	1.045	0.014	9	0.014	-.016	9	0.018	-.016	9	-.009	-.007
10	-3.018	1.045	0.014	10	0.014	-.005	10	0.018	-.016	10	-.009	-.007

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938		
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-11.710	259	1	-10.812	218	1	-3.294	467
2	-1.196	320	2	-1.412	101	2	-1.128	178
3	-1.430	320	3	-1.152	306	3	-0.998	248
4	-1.074	320	4	-1.184	306	4	-0.666	088
5	-1.271	320	5	-1.052	306	5	-0.477	059
6	-1.041	320	6	-0.853	306	6	-0.703	104
7	-1.079	320	7	-0.848	306	7	-0.500	026
8	-1.045	320	8	-0.837	306	8	-0.377	098
9	-1.012	320	9	-0.837	306	9	-0.250	019
10	-1.011	320	10	-0.837	306	10	-0.250	019

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 95 ALPHA-MCL = 6.0 PCP RUN.PI 20.09  
 PUN 20 ALPHA-BAR = .5 O-CUMP = .32332  
 POINT 6 SIGMA = 0. V-REF = 199.40  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER PACHA \*\*\*

BLADE NO.

XE:005  
 SUCTION

9

7

6

5

4

3

N	CP-MAG	PHI
1	9.746	169.32
2	.398	61.10
3	.165	132.47
4	.065	335.83
5	.140	98.57
6	.043	80.59
7	.048	295.11
8	.041	146.52
9	.060	250.51
10	.041	72.51

XE:012  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	17.029	144.06	1	13.240	177.25	1	9.239	173.03	1	10.058	172.21	1	9.603	181.32
2	.173	120.18	2	.638	65.06	2	.150	64.37	2	.491	241.52	2	.328	333.00
3	1.402	144.63	3	.955	154.24	3	.158	149.70	3	.571	293.01	3	.192	333.00
4	.355	5.33	4	.236	340.25	4	.149	4.38	4	.430	234.36	4	.162	333.00
5	.446	273.57	5	.204	161.80	5	.086	97.40	5	.218	255.09	5	.104	333.00
6	.144	49.75	6	.182	59.69	6	.047	77.33	6	.167	232.50	6	.035	333.00
7	.277	10.38	7	.024	346.09	7	.043	175.18	7	.066	246.62	7	.055	333.00
8	.057	252.94	8	.031	270.70	8	.033	194.03	8	.067	169.86	8	.006	124.47
9	.218	142.01	9	.022	53.64	9	.034	38.63	9	.067	63.86	9	.006	124.47
10	.095	208.81	10	.022	53.64	10	.034	38.63	10	.067	63.86	10	.006	124.47

XE:030  
 SUCTION

N	CP-MAG	PHI
1	3.979	171.61
2	.394	149.26
3	.102	101.55
4	.072	310.42
5	.073	91.62
6	.140	134.48
7	.032	308.82
8	.029	188.57
9	.022	288.05
10	.011	88.88

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 95 ALPHA-MCL = 6.0 PDP RUN-PT 20.09  
 RUN 20 ALPHA-BAR = .5 O-COMP = 32332  
 POINT 6 SIGMA = 0. V-REF = 199.40  
 COMPUTED FREQUENCY = 19.04, K = .1500

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
X=.062 SUCTION	1	3.660	152.20	1	2.974	173.63	1	3.989	176.05	1	3.915	179.14	1	4.225	178.39	1	4.470	187.99
	2	.130	152.30	2	.120	198.74	2	.287	134.31	2	.231	129.56	2	.200	133.78	2	.188	131.61
	3	.430	152.12	3	.165	132.39	3	.284	134.31	3	.231	129.56	3	.200	133.78	3	.188	131.61
	4	.187	152.97	4	.125	297.39	4	.171	322.31	4	.123	318.56	4	.107	166.61	4	.107	166.61
	5	.010	300.28	5	.068	93.47	5	.058	146.40	5	.045	119.90	5	.037	232.01	5	.037	232.01
	6	.145	30.15	6	.035	60.58	6	.084	145.20	6	.072	157.42	6	.116	12.83	6	.060	115.68
	7	.104	189.97	7	.043	340.53	7	.034	182.58	7	.029	190.21	7	.046	220.48	7	.042	239.31
	8	.151	158.97	8	.016	293.31	8	.011	328.72	8	.005	60.21	8	.032	132.21	8	.042	239.31
	9	.123	230.04	9	.009	147.23	9	.002	241.69	9	.008	124.65	9	.028	153.98	9	.004	276.84
	10	.153	230.04	10			10			10			10			10		
X=.012 PRESSURE	1	4.020	318.36	1	3.188	343.98	1	3.188	343.98	1	4.193	344.34	1	5.042	343.98	1	4.716	350.77
	2	.159	277.06	2	.160	220.16	2	.216	220.16	2	.280	231.15	2	.198	213.04	2	.231	212.99
	3	.151	254.35	3	.081	260.19	3	.081	260.19	3	.153	270.27	3	.329	233.76	3	.231	212.99
	4	.206	101.81	4	.013	65.95	4	.065	140.29	4	.042	153.69	4	.299	239.92	4	.087	165.52
	5	.098	245.82	5	.080	153.59	5	.065	140.29	5	.065	153.69	5	.032	164.67	5	.108	176.68
	6	.027	142.84	6	.060	179.56	6	.071	180.42	6	.054	180.42	6	.054	180.42	6	.107	176.68
	7	.123	320.84	7	.030	113.81	7	.030	113.81	7	.048	221.51	7	.054	180.42	7	.051	176.68
	8	.049	68.61	8	.014	198.85	8	.014	198.85	8	.023	221.51	8	.029	211.52	8	.051	176.68
	9			9			9			9			9			9		
	10			10			10			10			10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062			W4 .125			W5 .250			W7 .750			W8 .875			W9 .938		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	11.713	178.73	1	10.814	178.85	1	3.327	188.08	1	1.238	218.49	1	1.153	224.54	1	1.078	225.87
	2	.209	200.61	2	.424	163.28	2	.219	234.08	2	.243	231.15	2	.365	222.51	2	.365	222.51
	3	.541	142.98	3	.185	116.99	3	.267	111.51	3	.300	109.57	3	.151	106.33	3	.151	106.33
	4	.136	159.46	4	.094	170.87	4	.110	306.78	4	.149	312.03	4	.107	152.15	4	.107	152.15
	5	.101	113.99	5	.141	112.85	5	.125	124.41	5	.105	125.79	5	.111	114.02	5	.111	114.02
	6	.081	111.26	6	.085	135.61	6	.106	200.58	6	.106	190.60	6	.103	197.86	6	.103	197.86
	7	.046	182.93	7	.051	158.60	7	.052	244.23	7	.054	135.56	7	.054	135.56	7	.054	135.56
	8	.012	168.60	8	.037	195.40	8	.017	198.23	8	.011	183.56	8	.011	183.56	8	.011	183.56
	9	.011	168.60	9	.006	195.40	9	.017	198.23	9	.011	183.56	9	.011	183.56	9	.011	183.56
	10			10			10			10			10			10		

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 97 ALPHA-MCL = 6.0 PDP RUN.PT 21.05  
 RUN 21 ALPHA-BAR = .5 O-COMP = .32048  
 POINT 2 SIGMA = 45. V-REF = 198.49  
 COMPUTED FREQUENCY = 9.08, K = .0718

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=.005  
 SUCTION

9

7

6

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3

N	CPREAL	CPIMAG
1	-4.613	13.423
2	.899	-.299
3	.227	.382
4	-.491	-.637
5	-.507	.180
6	-.228	-.095
7	.066	.086
8	.042	-.019
9	-.082	.034
10	.033	-.097

X=.012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	8.904	14.735	1	15.899	1.541	1	-13.158	-5.013	1	-6.439	-13.306
2	-.135	-.390	2	-1.944	2.631	2	-.737	-.967	2	.651	.605
3	-1.218	1.076	3	-1.028	-.526	3	-.043	.667	3	-.266	.705
4	.059	-.242	4	-.077	1.208	4	-.008	-.135	4	-.325	-.630
5	.307	.057	5	-.088	.708	5	-.022	.021	5	-.041	.022
6	.329	.057	6	-.301	.147	6	.020	.021	6	.041	.081
7	-.099	-.082	7	.021	-.321	7	.045	-.138	7	.013	-.040
8	.091	-.061	8	-.012	.017	8	.014	.036	8	-.022	.150
9	.132	-.078	9	.007	-.046	9	.036	-.032	9	.019	.019
10			10			10			10		

X=.030  
 SUCTION

N	CPREAL	CPIMAG
1	-1.080	5.802
2	-.778	.908
3	-.609	.718
4	-.413	.649
5	-.270	.105
6	-.125	-.059
7	-.045	.030
8	-.020	.010
9	-.039	.006
10		

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# OCWT PERIODICITY TEST MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 97 ALPHA-MCL = 6.0 PDP RUN-PT 21.05  
 RUN 21 ALPHA-BAR = .5 Q-COMP = .32048  
 POINT 2 SIGMA = 45. V-REF = 198.49  
 COMPUTED FREQUENCY = 9.08, K = .0718

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	3.486	3.081	1	-.020	4.172	1	-3.213	2.570	1	-.890	-.195	1	-2.159	-.192	1	-.020	-2.177
	2	-.157	-.026	2	-.098	.027	2	-.457	-.313	2	-.104	-.104	2	-.003	-.114	2	-.078	-.177
	3	-.623	1.050	3	-.438	.845	3	-.623	1.081	3	-.596	-.596	3	-.605	-.938	3	-.861	-.768
	4	-.225	-.701	4	-.359	-.722	4	-.442	-.747	4	-.276	-.276	4	-.239	-.780	4	-.186	-.688
	5	-.084	-.087	5	-.190	.127	5	-.009	-.025	5	-.164	-.164	5	-.005	-.021	5	-.046	-.032
	6	-.052	-.043	6	-.075	-.015	6	-.030	-.106	6	-.047	-.047	6	-.037	-.034	6	-.079	-.070
	7	-.181	.129	7	-.046	.054	7	-.003	-.013	7	-.007	-.007	7	-.028	-.080	7	-.080	-.070
	8	-.009	.098	8	-.026	.020	8	-.044	-.003	8	-.009	-.025	8	-.010	-.080	8	-.002	-.070
	9	-.032	.032	9	-.078	-.031	9	-.004	-.015	9	-.031	-.031	9	-.010	-.012	9	-.019	-.017
	10	.028	-.037	10	.008	-.003	10	.045	-.015	10	-.004	-.004	10	.010	.012	10	.019	.017
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	-.318	-3.586	1	6.480	-.531	1	5.480	-.531	1	4.079	7.436	1	5.267	9.198	1	-6.174	3.084
	2	-.110	.113	2	-.162	-.287	2	-.162	-.287	2	-.236	-.035	2	-.300	1.087	2	-.150	1.205
	3	-.366	.945	3	-.589	.951	3	-.589	.951	3	1.030	-.679	3	-.615	1.095	3	-.150	-.053
	4	-.514	-.694	4	-.311	-.716	4	-.311	-.716	4	-.255	-.255	4	-.305	-.093	4	-.221	-.053
	5	-.181	.143	5	-.123	.115	5	-.123	.115	5	-.108	-.108	5	-.065	-.117	5	-.134	-.053
	6	-.053	-.084	6	-.001	-.044	6	-.001	-.044	6	-.030	-.030	6	-.097	.039	6	-.049	-.010
	7	-.085	.029	7	-.045	.020	7	-.045	.020	7	-.041	-.041	7	-.057	-.026	7	-.051	-.010
	8	-.093	.098	8	-.086	.070	8	-.086	.070	8	-.082	-.082	8	-.064	-.043	8	-.051	-.040
	9	-.081	.101	9	-.043	-.010	9	-.043	-.010	9	-.040	-.040	9	-.046	.016	9	-.016	-.010
	10	-.047	.003	10	-.013	-.022	10	-.013	-.022	10	-.040	-.040	10	.046	.016	10	.016	-.017

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938		
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1-13.500	-3.352	-1.927	-2.776	1.588	1.739	1.815		
1-11.435	-1.927	-1.588	-1.183	1.331	1.112	1.105		
2-3.373	-1.362	-1.362	-1.431	1.340	1.140	1.357		
2-1.074	-1.074	-1.074	-1.106	1.090	1.060	1.994		
3-1.760	-1.760	-1.760	-1.366	-1.090	1.104	1.377		
3-1.601	-1.601	-1.601	-1.366	-1.182	1.043	1.071		
4-1.018	-1.018	-1.018	-1.019	-1.089	1.012	1.071		
4-0.888	-0.888	-0.888	-0.164	-0.065	1.029	1.055		
5-0.084	-0.084	-0.084	-0.045	-0.042	1.016			
5-0.021	-0.021	-0.021	-0.032	-0.069				
6-0.076	-0.076	-0.076	-0.032					
6-0.018	-0.018	-0.018	-0.032					
7-0.054	-0.054	-0.054	-0.032					
7-0.052	-0.052	-0.052	-0.030					

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 97 ALPHA-MCL = 6.0 PDP RUN-PT 21.05  
 RUN 21 ALPHA-BAR = .5 O-COMP = .32048  
 POINT 2 SIGMA = .5 V-REF = .19649  
 COMPUTED FREQUENCY = 9.08, K = .0718

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

N	CP-MAG	PHI
1	14.193	198.97
2	.947	161.60
3	.444	329.23
4	.804	232.36
5	.356	239.69
6	.247	222.59
7	.108	222.41
8	.046	235.84
9	.118	224.35
10	.102	108.74

X=.012  
 SUCTION

N	CP-MAG	PHI
1	17.216	193.26
2	.413	160.97
3	1.625	183.54
4	.572	196.91
5	.256	238.33
6	.312	259.42
7	.558	.55
8	.129	320.27
9	.109	344.59
10	.154	239.48

X=.030  
 SUCTION

N	CP-MAG	PHI
1	5.902	190.54
2	.767	322.01
3	.942	40.32
4	.770	237.50
5	.290	248.78
6	.138	25.18
7	.053	56.03
8	.046	13.04
9	.021	254.33
10	.072	123.15

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	14.789	195.18	1	12.137	199.80	1	12.137	199.80
2	.754	112.68	2	1.006	212.75	2	1.006	212.75
3	.691	335.68	3	.659	195.19	3	.659	195.19
4	.329	223.63	4	.238	213.63	4	.238	213.63
5	.049	242.49	5	.030	213.63	5	.030	213.63
6	.091	108.10	6	.138	213.63	6	.138	213.63
7	.042	291.55	7	.029	291.55	7	.029	291.55
8	.152	216.55	8	.121	289.70	8	.121	289.70
9	.051	292.55	9	.048	318.48	9	.048	318.48
10			10			10		

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# OCWT PERIODICITY TEST MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 97 ALPHA-MCL = 6.0 POP RUN-PT 21.05  
 RUN 21 ALPHA-BAR = .5 Q-COMP = .32048  
 POINT 2 ALPHA-SIGMA = 45. V-REF = 198.49  
 COMPUTED FREQUENCY = 9.08, K = .0718  
 UNBIASED PHASE ANGLE

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9						
X=.062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	4	.653	176.47	1	.172	180.29	1	.288	191.98	1	.894	198.82
2	3	.159	199.32	2	.101	195.41	2	.178	125.70	2	.149	159.98
3	4	.121	165.20	3	.952	243.59	3	1.737	127.26	3	1.119	157.83
4	5	.736	88.29	4	.807	236.20	4	.137	246.66	4	.222	159.21
5	6	.120	309.29	5	.228	11.49	5	.196	168.66	5	.050	182.75
6	7	.061	9.58	6	.071	40.15	6	.061	140.15	6	.028	180.17
7	8	.222	95.35	7	.071	110.18	7	.021	160.94	7	.084	201.62
8	9	.099	270.04	8	.080	255.71	8	.032	252.08	8	.016	221.28
9	10	.045	216.91	9	.032	105.18	9	.032	252.08	9	.023	221.28
10	10	.046	216.91	10	.032	105.18	10	.032	252.08	10	.023	221.28
X=.012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	3	.600	39.94	1	.501	40.32	1	.848	28.74	1	10.600	15.20
2	3	.158	44.27	2	.329	330.48	2	1.234	270.33	2	.312	331.80
3	4	.013	156.20	3	1.119	256.79	3	.234	123.47	3	1.361	351.80
4	5	.863	97.63	4	.781	66.77	4	.814	257.71	4	.046	271.17
5	6	.230	97.63	5	.169	181.94	5	.076	293.54	5	.134	270.86
6	7	.100	31.94	6	.049	110.73	6	.088	159.62	6	.069	220.86
7	8	.090	243.59	7	.111	140.72	7	.082	159.62	7	.069	220.86
8	9	.135	133.83	8	.044	29.95	8	.043	341.79	8	.063	220.77
9	10	.130	263.83	9	.025	29.95	9	.043	341.79	9	.063	220.77
10	10	.047	86.67	10	.025	29.95	10	.043	341.79	10	.063	220.77

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W6 .375	W7 .500	W8 .625	W9 .750	
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	
1	13	.910	193.94	1	.596	189.57	1	.286
2	3	.390	173.22	2	.755	204.07	2	.316
3	4	.462	132.75	3	1.983	129.07	3	1.522
4	5	.794	151.22	4	.367	129.78	4	1.062
5	6	.213	151.64	5	.070	129.78	5	.062
6	7	.042	168.10	6	.070	131.89	6	.092
7	8	.119	150.65	7	.026	161.08	7	.058
8	9	.025	328.37	8	.120	298.34	8	.063
9	10	.075	316.33	9	.026	171.08	9	.063
10	10	.075	316.33	10	.026	171.08	10	.063

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 99 ALPHA-MCL = 6.0 POP RUN.9T 21.07  
 PUN 21 ALPHA-BAR = .5 O-CUMP = .32243  
 POINT 4 SIGMA = .5 V-REF = 199.10  
 COMPUTED FREQUENCY = 15.50, K = .1223

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

N	CPREAL	CPIMAG
1	-3.643	13.751
2	.095	-1.380
3	.452	-1.144
4	-.078	-.015
5	-.074	.196
6	.057	-.150
7	-.065	-.005
8	-.070	-.093
9	-.014	-.007
10	.001	.062

X=.012  
 SUCTION

N	CPREAL	CPIMAG
1	9.225	14.421
2	-1.030	-.378
3	-.740	1.120
4	.039	-.040
5	.510	-.119
6	-.110	.031
7	-.053	-.172
8	.165	-.069
9	.057	.159
10		

X=.030  
 SUCTION

N	CPREAL	CPIMAG
1	-.494	5.739
2	-1.499	.291
3	-.364	.180
4	-.099	-.094
5	-.004	.139
6	.041	-.070
7	-.018	-.018
8	-.039	-.049
9	.005	.032
10	.005	.032

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-5.497	17.487	1	-12.118	-3.676	1	11.586	-5.681
2	.512	-1.440	2	.633	.456	2	-.595	-.901
3	.280	.107	3	.096	.169	3	.023	.211
4	-.046	.010	4	.049	.011	4	.179	.071
5	-.099	.203	5	.099	.067	5	-.101	.152
6	.077	-.201	6	.011	.006	6	-.059	-.078
7	-.175	.049	7	-.012	-.058	7	-.021	-.023
8	.075	.130	8	.001	-.020	8	-.009	-.003
9	-.028	-.017	9	-.017	-.015	9	-.003	-.001
10	.003	.072	10	-.012	-.010	10	-.001	-.005

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99  ALPHA-MCL = 6.0      POP RJN,PT  21.07
21  ALPHA-BAR = .5       Q-COMP = .32243
4   SIGMA = 45.          V-REF = 199.10
      COMPUTED FREQUENCY = 15.50,  K = .1223

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
COMPUTED FREQUENCY = 13.300

MOI 13N  
SUCY IOW  
X=062

X=.062 SUCTION											
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	3.896	2.581	1	.594	3.859	1	-2.323	2.273	1	-3.248	-1.036
2	.887	.383	2	.659	.612	2	-1.251	.741	2	-.793	-.413
3	-.145	.386	3	.009	.157	3	-.064	.281	3	-.071	.185
4	.034	.109	4	.079	-.072	4	-.063	-.043	4	.136	-.070
5	.295	.121	5	.058	.156	5	.170	.198	5	.072	.109
6	.032	.015	6	.012	-.074	6	.010	-.034	6	-.000	-.068
7	-.187	.030	7	.036	-.023	7	-.013	.020	7	.029	-.039
8	-.059	.105	8	-.028	-.067	8	-.019	.007	8	.011	-.006
9	.063	.082	9	-.009	.018	9	-.019	-.007	9	-.035	-.006
10	.051	.097	10	.016	.020	10	-.006	.016	10	-.027	.011
X=.012 PRESSURE											
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	.514	.402	1	6.851	-1.503	1	8.116	2.586	1	7.056	1.323
2	.127	.284	2	-.998	-.518	2	-.787	-.582	2	-.340	-.340
3	.095	.136	3	-.028	.216	3	-.032	.157	3	-.090	-.090
4	-.007	.097	4	.040	-.082	4	.130	-.119	4	.053	.053
5	-.051	.094	5	-.014	.125	5	-.025	.056	5	.029	.029
6	.020	.027	6	-.011	-.025	6	-.022	-.003	6	-.074	-.074
7	.110	.059	7	-.010	.068	7	-.015	-.004	7	-.033	-.033
8	.093	.052	8	.013	.017	8	-.020	.019	8	-.005	-.005
9	.001	.001	9	.016	.003	9	-.003	-.029	9	-.009	-.009
10	.001	.001	10	.016	.003	10	-.003	.029	10	-.009	-.009

\*\*\* WALL PRESSURE, PER RADIAN \*\*\*

WALL NO.  
GAP FRACTION

WALL NO.	AP FRACTION	W3 CPREAL	W3 CPIMAG	W4 CPREAL	W4 CPIMAG	W5 CPREAL	W5 CPIMAG	W7 CPREAL	W7 CPIMAG	W8 CPREAL	W8 CPIMAG	W9 CPREAL	W9 CPIMAG
1	12	12	2	9	1	1	324	1	655	1	795	1	807
2	1044	2	996	839	1	473	390	1	620	1	798	1	807
3	762	2	298	1	219	1	239	1	220	1	598	1	151
4	164	1	186	1	119	1	159	1	158	1	199	1	151
5	1085	1	197	0	095	0	096	0	158	0	175	0	195
6	111	1	330	1	128	1	128	1	101	1	105	1	102
7	135	1	242	0	143	0	143	0	060	0	105	0	102
8	118	1	146	0	103	0	103	0	012	0	119	0	119
9	1069	1	335	0	033	0	033	0	005	0	032	0	031
10	1002	1	101	0	001	0	001	0	016	0	029	0	029

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 99 ALPHA-MCL = 6.0 POP RUN-PT 21.07  
 RUN 21 ALPHA-BAR = 5.5 O-COMP = .3293  
 POINT SIGMA = 45.0 V-REF = .195.10  
 COMPUTED FREQUENCY = 15.50, K = .1223

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=005  
 SUCTION

N	CP-MAG	PHI
1	14.225	194.84
2	1.384	193.95
3	.050	252.37
4	.200	197.83
5	.161	110.86
6	.065	85.83
7	.108	225.86
8	.016	296.10
9	.062	268.92
10		

X=012  
 SUCTION

N	CP-MAG	PHI
1	17.119	192.39
2	1.067	110.14
3	.056	156.45
4	.524	134.68
5	.458	301.92
6	.180	105.60
7	.179	338.00
8	.168	252.33
9		390.05
10		

X=030  
 SUCTION

N	CP-MAG	PHI
1	5.760	184.92
2	1.527	349.02
3	.406	63.66
4	.129	220.37
5	.081	181.52
6	.026	120.56
7	.062	44.22
8	.040	231.30
9	.032	173.04
10		261.07

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	13.577	200.65	1	13.577	200.65	1	13.577	200.65	1	13.577	200.65
2	.391	237.02	2	.391	237.02	2	.391	237.02	2	.391	237.02
3	.285	111.70	3	.285	111.70	3	.285	111.70	3	.285	111.70
4	.224	276.13	4	.224	276.13	4	.224	276.13	4	.224	276.13
5	.082	138.23	5	.082	138.23	5	.082	138.23	5	.082	138.23
6	.094	339.92	6	.094	339.92	6	.094	339.92	6	.094	339.92
7	.105	278.92	7	.105	278.92	7	.105	278.92	7	.105	278.92
8	.105	107.63	8	.105	107.63	8	.105	107.63	8	.105	107.63
9	.046	86.36	9	.046	86.36	9	.046	86.36	9	.046	86.36
10			10			10			10		

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# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 99 ALPHA-MCL = 6.0 PDP RUN-PT 21.07  
 RUN 21 ALPHA-BAR = .5 O-COMP = .32243  
 POINT 4 SIGMA = .45 V-REF = 199.10  
 COMPUTED FREQUENCY = 15.50, K = .1223  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9						
X=062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	2	3	4	5	6	7	8	9	10		
2	1	2	3	4	5	6	7	8	9	10		
3	1	2	3	4	5	6	7	8	9	10		
4	1	2	3	4	5	6	7	8	9	10		
5	1	2	3	4	5	6	7	8	9	10		
6	1	2	3	4	5	6	7	8	9	10		
7	1	2	3	4	5	6	7	8	9	10		
8	1	2	3	4	5	6	7	8	9	10		
9	1	2	3	4	5	6	7	8	9	10		
10	1	2	3	4	5	6	7	8	9	10		
X=012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	2	3	4	5	6	7	8	9	10		
2	1	2	3	4	5	6	7	8	9	10		
3	1	2	3	4	5	6	7	8	9	10		
4	1	2	3	4	5	6	7	8	9	10		
5	1	2	3	4	5	6	7	8	9	10		
6	1	2	3	4	5	6	7	8	9	10		
7	1	2	3	4	5	6	7	8	9	10		
8	1	2	3	4	5	6	7	8	9	10		
9	1	2	3	4	5	6	7	8	9	10		
10	1	2	3	4	5	6	7	8	9	10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	W3	W4	W5	W7	W8	W9
GAP FRACTION	N	N	N	N	N	N
1	12	10	1	1	1	2
2	418	10	1	1	1	1
3	.818	1	1	1	1	1
4	.409	1	1	1	1	1
5	.213	1	1	1	1	1
6	.242	1	1	1	1	1
7	.065	1	1	1	1	1
8	.150	1	1	1	1	1
9	.075	1	1	1	1	1
10	.013	1	1	1	1	1

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 102 A=MA-MCL = 6.0 PDP RUN.PI 21.10  
 RUN 21 A=MA-BAR = .5 G-COMP = .31986  
 POINT 27 SIGMA = .45 V-REF = 198.29  
 COMPUTED FREQUENCY = 19.08, K = .1512

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

N	CPREAL	CPIMAG
1	-5.197	14.170
2	.988	-.694
3	.428	-.298
4	-.194	.029
5	-.263	.072
6	-.079	.056
7	-.002	.015
8	-.081	.072
9	-.020	.022
10	-.040	-.014

X=.012  
 SUCTION

N	CPREAL	CPIMAG
1	-6.954	17.560
2	1.301	-.599
3	.332	-.254
4	-.161	.016
5	-.323	.077
6	-.080	.031
7	-.020	.021
8	-.022	.018
9	-.041	-.020
10	-.041	-.020

X=.030  
 SUCTION

N	CPREAL	CPIMAG
1	-2.283	5.294
2	.184	-.860
3	.005	-.057
4	-.210	.042
5	-.107	.049
6	-.069	.021
7	-.000	.015
8	-.037	.029
9	-.021	-.003
10	-.009	-.003

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N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	7.875	15.045	1	-7.739	13.728	1	10.030	-7.787
2	-.412	.079	2	.732	.943	2	.005	.005
3	-.102	.147	3	.799	.023	3	.159	.159
4	-.190	.177	4	.380	.367	4	.140	.140
5	.177	.061	5	-.292	.109	5	-.246	-.246
6	.058	.116	6	.046	.089	6	.107	.107
7	.369	.033	7	.000	.001	7	.018	.018
8	-.247	.086	8	.000	.001	8	.045	.045
9	-.022	.075	9	.000	.001	9	.005	.005
10	.125	.079	10	.000	.001	10	.022	.022



FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

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FILE 102 ALPHA-MCL = 6.0 POP RUN-PT 21.10
RUN 21 ALPHA-BAR = .5 Q-COMP = .31986
POINT 7 SIGMA = 45. V-REF = 198.29
COMPUTED FREQUENCY = 19.08, K = .1512

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=062 SUCTION											
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1.424	2.887	1	-1.809	3.791	1	-4.832	2.181	1	-5.723	-1.244
2	0.254	3.019	2	-1.486	2.666	2	-0.000	1.222	2	3.376	-0.417
3	0.951	3.039	3	-1.735	2.134	3	-1.186	1.159	3	3.105	-0.417
4	-0.170	3.039	4	-2.022	1.687	4	-0.009	0.157	4	3.147	-0.033
5	0.310	3.035	5	-1.422	0.288	5	-0.009	0.021	5	-0.226	0.034
6	-0.033	3.063	6	-0.051	0.005	6	-0.009	0.021	6	0.063	0.099
7	-0.192	3.099	7	-0.050	0.009	7	-0.009	0.021	7	0.073	0.101
8	-0.123	3.099	8	-0.042	0.022	8	-0.009	0.020	8	0.057	0.098
9	-0.008	3.045	9	-0.044	0.023	9	-0.009	0.010	9	0.013	0.021
10	-0.127	3.013	10	-0.053	0.002	10	-0.002	0.000	10	0.013	0.001

X=012 PRESSURE											
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-2.057	-4.806	1	3.931	-2.034	1	5.076	2.053	1	3.955	6.500
2	0.500	5.567	2	3.086	-0.339	2	-0.543	-0.230	2	3.211	0.000
3	0.249	5.005	3	1.050	-0.002	3	-1.222	-0.086	3	-0.155	0.106
4	-0.195	4.955	4	-0.000	0.016	4	-1.744	-0.033	4	-0.031	0.069
5	-0.200	4.981	5	-0.004	0.010	5	-0.057	0.022	5	-0.066	0.004
6	-0.087	4.929	6	-0.004	0.005	6	-0.008	0.006	6	-0.077	0.016
7	-0.091	4.991	7	-0.009	0.006	7	-0.008	0.006	7	-0.077	0.010
8	-0.035	4.988	8	-0.047	0.009	8	-0.057	0.006	8	-0.067	0.004
9	-0.075	4.941	9	-0.047	0.019	9	-0.054	0.004	9	-0.067	0.004
10	-0.070	4.910	10	-0.008	0.005	10	-0.019	0.002	10	-0.011	0.001

\*\*\* WALL PRESSURE, PER Radian \*\*\*

WALL NO.  
GAP FRACTION

	W3 .062			W4 .125			W5 .250			W7 .750			W8 .875			W9 .938		
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	
1-15	.068	-3.102	1-13	.231	-2.221	1	-4.985	-.844	1	-2.182	-.068	1	-2.003	.052	1	-1.814	.310	
2	.621	-1.707	2	.344	-.871	2	.472	-.632	2	.485	-.680	2	.498	.708	2	.512	.639	
3	-.056	-1.120	3	.149	-.098	3	.164	-.023	3	.105	-.033	3	.126	.068	3	.174	-.003	
4	-.153	-.681	4	-.235	-.073	4	-.210	-.040	4	.182	-.064	4	.192	-.100	4	.175	-.083	
5	-.175	-.026	5	-.085	-.051	5	-.105	-.038	5	.137	-.056	5	.134	.018	5	.141	-.086	
6	-.104	.019	6	-.127	-.047	6	-.126	.004	6	.104	.021	6	.134	.013	6	.110	.020	
7	-.057	.027	7	-.061	-.003	7	-.036	.021	7	.085	.012	7	.084	.010	7	.068	.026	
8	-.050	-.025	8	-.032	-.067	8	-.056	.009	8	.058	.024	8	.084	.010	8	.058	.026	
9	-.048	-.006	9	-.039	-.026	9	-.023	-.002	9	.016	-.000	9	.008	.012	9	.050	.003	
10	-.048	-.006	10	-.042	-.001	10	-.023	-.002	10	-.016	-.000	10	-.008	-.012	10	-.050	-.003	

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 102 ALPHA-MCL = 6.0 POP RUN-PI 21.10  
RUN 21 ALPHA-BAR = 0.5 O-COMP = .51986  
POINT 7 SIGMA = 45. V-REF = .198.29  
COMPUTED FREQUENCY = 19.08, K = .1512

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
\*\*\* BLADE PRESSURES, PEP RADIAN \*\*\*

BLADE NO. 3

X=.005  
SUCTION

N	CP-MAG	PHI
1	15.093	200.14
2	1.201	145.32
3	.522	235.21
4	.196	171.39
5	.272	254.76
6	.096	324.64
7	.015	6.54
8	.081	178.36
9	.029	221.63
10	.042	19.53

X=.012  
SUCTION

N	CP-MAG	PHI
1	16.981	197.37
2	.420	100.90
3	.287	150.33
4	.187	322.27
5	.130	296.00
6	.171	150.43
7	.262	199.27
8	.104	1.27
9	.148	237.91
10		

X=.030  
SUCTION

N	CP-MAG	PHI
1	5.765	203.33
2	.880	282.05
3	.058	185.40
4	.213	170.74
5	.115	348.80
6	.122	304.27
7	.029	157.55
8	.040	157.55
9	.036	216.46
10	.010	219.24

9

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N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	12.698	195.59	1	15.759	196.12	1	13.003	196.12
2	.215	322.62	2	1.199	100.32	2	.833	100.32
3	.215	226.97	3	.528	332.07	3	.390	332.07
4	.259	295.34	4	.310	275.56	4	.133	275.56
5	.152	207.33	5	.101	135.31	5	.107	135.31
6	.073	205.33	6	.059	116.71	6	.060	116.71
7	.073	179.33	7	.059	122.14	7	.063	122.14
8	.073	77.01	8	.097	325.60	8	.013	325.60
9	.073		9			9	.056	215.60
10			10			10		

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 102 ALPHA-MCL = 6.0 POP RUNPT 21.10  
 RUN 21 ALPHA-BAR = .5 Q-COMP = .31986  
 POINT 7 SIGMA = 45. V-REF = .19629  
 COMPUTED FREQUENCY = 19.08, K = .1512

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	3.219 198.75	4.192 205.57	5.301 206.71	5.861 192.46	6.610 188.99	5.232 178.68
2	.413 322.00	.554 208.67	.136 205.98	.561 47.96	.731 325.08	.543 157.59
3	.055 65.05	.219 232.20	.195 189.55	.110 343.57	.390 216.09	.176 289.01
4	.175 347.26	.202 182.09	.207 43.59	.156 199.71	.317 242.60	.161 296.17
5	.037 28.61	.145 258.71	.043 327.58	.082 177.47	.193 225.90	.104 276.18
6	.071 207.24	.354.67	.042 325.24	.101 186.37	.108 205.34	.090 212.34
7	.211 69.41	.018 122.38	.039 139.62	.059 183.59	.065 175.37	.048 210.99
8	.163 217.35	.055 156.68	.056 156.86	.029 163.51	.046 176.44	.052 335.72
9	.046 54.70	.048 239.42	.044 211.26	.031 193.52	.056 176.44	.020 335.72
10	.127 264.05	.004 36.13	.022 275.15	.031 193.52	.056 176.44	.020 335.72
X=.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	5.228 21.82	4.426 17.64	5.875 22.02	7.457 15.65	8.584 26.85	8.584 26.85
2	.823 311.17	.456 137.90	.590 22.93	.457 332.72	.501 161.91	.501 161.91
3	.337 29.58	.108 122.58	.149 191.60	.153 291.98	.112 31.71	.112 31.71
4	.224 26.58	.150 80.22	.178 202.44	.083 16.59	.006 169.46	.006 169.46
5	.200 135.15	.072 31.77	.061 193.24	.098 260.87	.035 256.12	.035 256.12
6	.089 283.10	.008 80.22	.073 193.24	.123 142.87	.070 182.94	.070 182.94
7	.095 248.14	.050 186.34	.018 147.74	.070 197.22	.029 176.39	.029 176.39
8	.059 271.74	.051 202.34	.064 147.74	.060 245.12	.029 176.39	.029 176.39
9	.071 81.99	.009 118.65	.019 147.74	.026 245.12	.060 245.12	.060 245.12
10						

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. S/P FRACTION	W3 CP-MAG PHI	W4 CP-MAG PHI	W5 CP-MAG PHI	W7 CP-MAG PHI	W8 CP-MAG PHI	W9 CP-MAG PHI
15	.384 191.63	.417 189.53	.056 189.60	2.183 181.70	2.004 178.50	1.826 173.91
1	.941 48.73	.936 68.42	.789 53.24	.111 342.58	.865 331.77	.812 320.77
2	.128 248.90	.178 326.80	.166 351.90	.111 342.58	.865 331.77	.812 320.77
3	.177 207.90	.250 167.02	.215 192.38	.137 199.71	.217 207.48	.142 205.34
4	.137 190.78	.211.22	.132 200.38	.137 199.71	.217 207.48	.142 205.34
5	.060 161.31	.136 159.59	.131 173.18	.158 151.73	.139 165.60	.119 157.24
6	.107 165.37	.177.61	.036 163.19	.158 151.73	.139 165.60	.119 157.24
7	.127 140.31	.145.42	.089 166.19	.086 157.40	.084 173.26	.068 179.76
8	.040 219.71	.119.19	.059 161.19	.063 157.40	.061 154.93	.058 149.76
9	.048 172.97	.049 179.11	.023 185.26	.016 180.57	.014 236.93	.009 215.30
10						

ORIGINAL PAGE IS  
OF POOR QUALITY

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 115 ALPHA-MCL = 6.0 PDP RUN PT 28.33  
PUN 24 ALPHA-BAB = .5 Q-COMP = 22.38  
POINT 2 SIGMA = 9.5 V-REF = 20.05  
COMPUTED FREQUENCY = 9.06, K = .0711

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

XZ=717 SUCTION	N CPREAL CPIMAG									
	1	2	3	4	5	6	7	8	9	10
1	5.304	-24.641	22.441	5.204	-7.310	12.497	1.175	-18.553	-3.839	14.139
2	.975	-1.137	-.220	1.432	1.398	-2.983	-.379	.851	-.585	.661
3	.246	1.919	-.580	.442	.876	-.715	-.411	.782	-.625	.079
4	.125	-.222	-.104	.211	.693	-.372	.217	.239	.266	.078
5	.095	-.475	-.193	-.288	-.167	-.117	.215	-.264	.200	-.043
6	.135	-.215	-.029	-.348	-.156	-.509	-.090	-.373	-.074	-.196
7	.047	-.047	-.045	-.062	-.192	-.222	.136	-.105	-.014	-.152
8	-.007	-.117	-.117	-.021	-.062	.047	-.062	-.142	-.073	-.023
9										
10										

  

XZ=030 SUCTION	N CPREAL CPIMAG									
	1	2	3	4	5	6	7	8	9	10
1	8.657	1.236	1.220	5.204	-7.310	12.497	5.175	-18.553	-3.839	14.139
2	1.222	-.075	-.220	1.432	1.398	-2.983	-.379	.851	-.585	.661
3	.177	.378	-.580	.442	.876	-.715	-.411	.782	-.625	.079
4	.037	.167	-.104	.211	.693	-.372	.217	.239	.266	.078
5	.056	-.121	-.193	-.288	-.167	-.117	.215	-.264	.200	-.043
6	.014	-.265	-.029	-.348	-.156	-.509	-.090	-.373	-.074	-.196
7	.043	-.044	-.045	-.062	-.192	-.222	.136	-.105	-.014	-.152
8										
9										
10										



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 115 ALPHA-MCL = 6.3 PDP RUN-PT 24.23  
 RUN 224 ALPHA-BL = 5.5 O-COMP = 328.38  
 POINT 224 SIGMA = 9.5 V-REF = 205.05  
 COMPUTED FREQUENCY = 9.06, K = .0711

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=0.05  
 SUCION

9

7

6

5

4

3

N	CP-MAG	PHI
1	19.383	195.67
2	1.494	110.50
3	.394	294.06
4	.546	40.73
5	.217	265.27
6	.264	235.35
7	.264	276.50
8	.264	264.50
9	.043	275.86
10	.113	176.79

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	23.037	193.76	1	14.824	279.58	1	19.261	195.59	1	14.824	279.58	1	19.261	195.59	1	14.824	279.58
2	1.702	122.75	2	1.224	270.77	2	1.523	207.70	2	1.523	207.70	2	1.523	207.70	2	1.523	207.70
3	.455	308.85	3	1.224	270.77	3	.455	308.85	3	.455	308.85	3	.455	308.85	3	.455	308.85
4	.669	41.94	4	.203	372.51	4	.669	41.94	4	.203	372.51	4	.669	41.94	4	.203	372.51
5	.373	258.12	5	.203	372.51	5	.373	258.12	5	.203	372.51	5	.373	258.12	5	.203	372.51
6	.051	245.01	6	.203	372.51	6	.051	245.01	6	.203	372.51	6	.051	245.01	6	.203	372.51
7	.119	211.01	7	.203	372.51	7	.119	211.01	7	.203	372.51	7	.119	211.01	7	.203	372.51
8	.051	245.01	8	.203	372.51	8	.051	245.01	8	.203	372.51	8	.051	245.01	8	.203	372.51
9	.119	211.01	9	.203	372.51	9	.119	211.01	9	.203	372.51	9	.119	211.01	9	.203	372.51
10	.051	245.01	10	.203	372.51	10	.051	245.01	10	.203	372.51	10	.051	245.01	10	.203	372.51

X=0.22  
 SUCION

N	CP-MAG	PHI
1	18.745	182.13
2	1.859	311.10
3	.664	64.04
4	.417	276.10
5	.127	295.10
6	.222	237.03
7	.133	224.15
8	.133	224.15
9	.133	224.15
10	.133	224.15

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 115 ALPHA-MCH = 6.0 PUP RUN-PT 24533  
 RUN 22 ALPHA-MCH = 9.0 C-COMP = 32538  
 POINT 22 SIGNIF = 9.0 V-REF = 200.05  
 COMPUTED FREQUENCY = 9.06 K = .0711  
 UNBIASED PHASE ANGLE

FOUPIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=262 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	5.600 197.52	6.265 183.89	5.183 175.93	5.050 134.20	7.081 161.79	5.476 182.67
2	1.090 191.67	5.559 183.77	5.344 189.92	5.924 146.77	7.942 161.79	5.776 182.67
3	6.633 218.71	6.511 183.89	6.511 183.89	5.564 146.04	5.991 161.79	5.521 182.67
4	1.608 251.08	2.106 242.68	2.106 242.68	1.277 251.08	1.522 251.08	1.119 251.08
5	2.057 275.37	2.333 267.13	2.333 267.13	1.417 267.13	1.822 267.13	1.221 267.13
6	4.071 298.38	4.071 298.38	4.071 298.38	1.417 267.13	1.822 267.13	1.221 267.13
7	4.071 298.38	4.071 298.38	4.071 298.38	1.417 267.13	1.822 267.13	1.221 267.13
8	4.071 298.38	4.071 298.38	4.071 298.38	1.417 267.13	1.822 267.13	1.221 267.13
9	4.071 298.38	4.071 298.38	4.071 298.38	1.417 267.13	1.822 267.13	1.221 267.13
10	4.071 298.38	4.071 298.38	4.071 298.38	1.417 267.13	1.822 267.13	1.221 267.13
X=042 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	6.123 7.08	7.029 31.56	7.029 31.56	10.272 19.57	10.509 7.01	11.599 2.92
2	6.123 7.08	7.029 31.56	7.029 31.56	10.272 19.57	10.509 7.01	11.599 2.92
3	6.123 7.08	7.029 31.56	7.029 31.56	10.272 19.57	10.509 7.01	11.599 2.92
4	6.123 7.08	7.029 31.56	7.029 31.56	10.272 19.57	10.509 7.01	11.599 2.92
5	6.123 7.08	7.029 31.56	7.029 31.56	10.272 19.57	10.509 7.01	11.599 2.92
6	6.123 7.08	7.029 31.56	7.029 31.56	10.272 19.57	10.509 7.01	11.599 2.92
7	6.123 7.08	7.029 31.56	7.029 31.56	10.272 19.57	10.509 7.01	11.599 2.92
8	6.123 7.08	7.029 31.56	7.029 31.56	10.272 19.57	10.509 7.01	11.599 2.92
9	6.123 7.08	7.029 31.56	7.029 31.56	10.272 19.57	10.509 7.01	11.599 2.92
10	6.123 7.08	7.029 31.56	7.029 31.56	10.272 19.57	10.509 7.01	11.599 2.92

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	362	425	450	475	498
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	15.839 194.99	11.017 191.82	11.334 197.50	11.334 197.50	11.334 197.50
2	15.839 194.99	11.017 191.82	11.334 197.50	11.334 197.50	11.334 197.50
3	15.839 194.99	11.017 191.82	11.334 197.50	11.334 197.50	11.334 197.50
4	15.839 194.99	11.017 191.82	11.334 197.50	11.334 197.50	11.334 197.50
5	15.839 194.99	11.017 191.82	11.334 197.50	11.334 197.50	11.334 197.50
6	15.839 194.99	11.017 191.82	11.334 197.50	11.334 197.50	11.334 197.50
7	15.839 194.99	11.017 191.82	11.334 197.50	11.334 197.50	11.334 197.50
8	15.839 194.99	11.017 191.82	11.334 197.50	11.334 197.50	11.334 197.50
9	15.839 194.99	11.017 191.82	11.334 197.50	11.334 197.50	11.334 197.50
10	15.839 194.99	11.017 191.82	11.334 197.50	11.334 197.50	11.334 197.50

ORIGINAL PAGE IS  
OF POOR QUALITY

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 117 ALPHA-MCL = 6.0 POP RUN:PI 24.05  
RUN 24 ALPHA-BAR = .5 O-COMP = .2358  
POINT 4 SIGMA = 90. V-REF = 199.49  
COMPUTED FREQUENCY = 15.51. K = .1222

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=025  
SUCTION

9

7

6

5

4

3

N	CPREAL	CPIMAG
1	17.139	3.591
2	1.543	1.317
3	1.104	1.104
4	1.073	1.073
5	1.073	1.073
6	1.073	1.073
7	1.073	1.073
8	1.073	1.073
9	1.073	1.073
10	1.073	1.073

X=012  
SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	21.454	5.264	1	17.634	4.691	1	3.318	19.028	1	1.331	19.526
2	1.735	1.518	2	1.735	1.518	2	1.735	1.518	2	1.735	1.518
3	1.735	1.518	3	1.735	1.518	3	1.735	1.518	3	1.735	1.518
4	1.735	1.518	4	1.735	1.518	4	1.735	1.518	4	1.735	1.518
5	1.735	1.518	5	1.735	1.518	5	1.735	1.518	5	1.735	1.518
6	1.735	1.518	6	1.735	1.518	6	1.735	1.518	6	1.735	1.518
7	1.735	1.518	7	1.735	1.518	7	1.735	1.518	7	1.735	1.518
8	1.735	1.518	8	1.735	1.518	8	1.735	1.518	8	1.735	1.518
9	1.735	1.518	9	1.735	1.518	9	1.735	1.518	9	1.735	1.518
10	1.735	1.518	10	1.735	1.518	10	1.735	1.518	10	1.735	1.518

X=030  
SUCTION

N	CPREAL	CPIMAG
1	6.746	1.258
2	1.785	1.457
3	1.392	1.350
4	1.392	1.350
5	1.392	1.350
6	1.392	1.350
7	1.392	1.350
8	1.392	1.350
9	1.392	1.350
10	1.392	1.350



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 117 ALPHA-MCL = 6.0 POP RUN-PT 23358  
 POINT 24 ALPHA-BAR = 92.0 O-COMP = 199.49  
 COMPUTED FREQUENCY = 15.51, K = .1222

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	1	2	3	4	5	6	7	8	9
X=0.62 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	-.117	-.5214	1	-1.616	5.479	1	-.400	5.720
	2	-.090	-.201	2	-.067	-.023	2	-.419	-.451
	3	-.102	-.009	3	-.177	-.045	3	-.306	-.050
	4	-.020	-.256	4	-.106	-.177	4	-.139	-.013
	5	-.022	-.039	5	-.072	-.123	5	-.079	-.010
	6	-.016	-.042	6	-.004	-.031	6	-.070	-.009
	7	-.013	-.024	7	-.004	-.011	7	-.013	-.009
	8	-.082	-.007	8	-.033	-.029	8	-.057	-.027
	9			9			9		
X=0.12 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	-.2459	6.366	1	1.802	-.581	1	3.169	-10.947
	2	-.115	-.476	2	-.122	-.023	2	-.194	-.316
	3	-.153	-.167	3	-.136	-.052	3	-.067	-.013
	4	-.158	-.201	4	-.136	-.133	4	-.054	-.041
	5	-.051	-.088	5	-.065	-.109	5	-.055	-.078
	6	-.017	-.050	6	-.013	-.062	6	-.015	-.050
	7	-.049	-.059	7	-.043	-.039	7	-.039	-.029
	8	-.034	-.031	8	-.001	-.017	8	-.019	-.026
	9			9			9		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	1	2	3	4	5	6	7	8	9
X=0.62	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	-.18	-.159	1	-5.913	-.16	1	-.300	-.920
	2	-.126	-.167	2	-.317	-.038	2	-.061	-.035
	3	-.119	-.101	3	-.037	-.054	3	-.032	-.015
	4	-.117	-.133	4	-.205	-.027	4	-.017	-.002
	5	-.145	-.103	5	-.115	-.029	5	-.006	-.002
	6	-.145	-.195	6	-.047	-.019	6	-.007	-.002
	7	-.011	-.029	7	-.001	-.047	7	-.004	-.003
	8	-.090	-.010	8	-.033	-.036	8	-.039	-.033
	9			9			9		
X=0.125	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	-.15	-.331	1	-.913	-.16	1	-.300	-.920
	2	-.181	-.181	2	-.317	-.038	2	-.061	-.035
	3	-.236	-.101	3	-.037	-.054	3	-.032	-.015
	4	-.004	-.103	4	-.205	-.027	4	-.006	-.002
	5	-.173	-.195	5	-.047	-.019	5	-.007	-.002
	6	-.035	-.029	6	-.001	-.047	6	-.004	-.003
	7	-.010	-.010	7	-.033	-.036	7	-.039	-.033
	8			8			8		
	9			9			9		

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 117 ALPHA-MCL = 6.9 PDP RUN:PT 22.55  
 RUN 24 ALPHA-BAR = 9.5 O-COMPT = 2.58  
 POINT 4 COMPTED FREQUENCY = 15.51, K = .1222  
 V-REF = 199.49

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	5	6	7	9
X=212 SUCTION	N CP-MAG PHI 1 17.511 191.84 2 1.425 112.40 3 268 157.26 4 379 222.30 5 295 354.80 6 110 322.54 7 119 34.18 8 245 16.00 9 132 177.78 10 206.49	N CP-MAG PHI 1 22.097 193.78 2 1.687 115.65 3 269 149.40 4 390 220.50 5 293 348.51 6 111 308.55 7 114 362.79 8 257 162.90 9 138 177.36 10 205.8	N CP-MAG PHI 1 19.489 238.04 2 2.779 123.67 3 1.757 137.60 4 1.104 237.93 5 1.546 357.78 6 1.144 32.70 7 1.089 32.90 8 1.059 18.00 9 1.057 105.60 10 1.057 105.60	N CP-MAG PHI 1 19.249 190.90 2 2.359 120.27 3 1.435 150.71 4 1.132 62.79 5 1.225 88.46 6 1.177 33.46 7 1.071 32.33 8 1.022 105.04 9 1.058 119.93 10 1.058 119.93	N CP-MAG PHI 1 19.316 189.89 2 2.697 123.51 3 1.395 150.61 4 1.130 61.82 5 1.259 87.26 6 1.126 16.07 7 1.092 32.92 8 1.036 23.80 9 1.038 97.50 10 1.038 97.50
X=230 SUCTION	N CP-MAG PHI 1 25.925 186.94 2 1.725 110.58 3 265 140.58 4 365 226.80 5 185 340.45 6 183 340.45 7 187 340.45 8 187 340.45 9 187 340.45 10 187 340.45	N CP-MAG PHI 1 22.097 193.78 2 1.687 115.65 3 269 149.40 4 390 220.50 5 293 348.51 6 111 308.55 7 114 362.79 8 257 162.90 9 138 177.36 10 205.8	N CP-MAG PHI 1 19.489 238.04 2 2.779 123.67 3 1.757 137.60 4 1.104 237.93 5 1.546 357.78 6 1.144 32.70 7 1.089 32.90 8 1.059 18.00 9 1.057 105.60 10 1.057 105.60	N CP-MAG PHI 1 19.249 190.90 2 2.359 120.27 3 1.435 150.71 4 1.132 62.79 5 1.225 88.46 6 1.177 33.46 7 1.071 32.33 8 1.022 105.04 9 1.058 119.93 10 1.058 119.93	N CP-MAG PHI 1 15.186 196.95 2 1.006 108.99 3 1.006 17.91 4 1.006 290.00 5 1.006 161.00 6 1.006 166.00 7 1.006 166.00 8 1.006 166.00 9 1.006 166.00 10 1.006 166.00

X=230 SUCTION	N CP-MAG PHI 1 5.802 197.53 2 1.622 198.44 3 1.622 241.87 4 1.622 141.75 5 1.622 319.48 6 1.622 18.11 7 1.622 16.94 8 1.622 16.94 9 1.622 179.73 10 1.622 179.73
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MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 117 ALPHA-MCL = 6.3 POP RUN P3 24.05  
 RUN 24 ALPHA-MBAR = 32.358  
 POINT V-REF = 199.49  
 COMPUTED FREQUENCY = 15.51, K = .1222

FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3											
3											
SUCTION											
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	5.216	178.56	1	5.713	196.47	1	6.917	187.13	1	9.03	180.01
2	5.796	118.25	2	6.257	140.87	2	7.444	102.21	2	9.579	133.00
3	6.256	20.46	3	6.813	197.14	3	7.444	102.21	3	9.579	133.00
4	6.256	20.46	4	6.813	197.14	4	7.444	102.21	4	9.579	133.00
5	6.256	20.46	5	6.813	197.14	5	7.444	102.21	5	9.579	133.00
6	6.256	20.46	6	6.813	197.14	6	7.444	102.21	6	9.579	133.00
7	6.256	20.46	7	6.813	197.14	7	7.444	102.21	7	9.579	133.00
8	6.256	20.46	8	6.813	197.14	8	7.444	102.21	8	9.579	133.00
9	6.256	20.46	9	6.813	197.14	9	7.444	102.21	9	9.579	133.00
10	6.256	20.46	10	6.813	197.14	10	7.444	102.21	10	9.579	133.00
PRESSURE											
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	6.824	21.12	1	6.824	21.12	1	6.824	21.12	1	6.824	21.12
2	6.824	21.12	2	6.824	21.12	2	6.824	21.12	2	6.824	21.12
3	6.824	21.12	3	6.824	21.12	3	6.824	21.12	3	6.824	21.12
4	6.824	21.12	4	6.824	21.12	4	6.824	21.12	4	6.824	21.12
5	6.824	21.12	5	6.824	21.12	5	6.824	21.12	5	6.824	21.12
6	6.824	21.12	6	6.824	21.12	6	6.824	21.12	6	6.824	21.12
7	6.824	21.12	7	6.824	21.12	7	6.824	21.12	7	6.824	21.12
8	6.824	21.12	8	6.824	21.12	8	6.824	21.12	8	6.824	21.12
9	6.824	21.12	9	6.824	21.12	9	6.824	21.12	9	6.824	21.12
10	6.824	21.12	10	6.824	21.12	10	6.824	21.12	10	6.824	21.12
*** WALL PRESSURES, PER RADIAN ***											
WALL NO. 3											
GAP FRACTION											
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	18.254	197.07	1	18.254	197.07	1	18.254	197.07	1	18.254	197.07
2	18.254	197.07	2	18.254	197.07	2	18.254	197.07	2	18.254	197.07
3	18.254	197.07	3	18.254	197.07	3	18.254	197.07	3	18.254	197.07
4	18.254	197.07	4	18.254	197.07	4	18.254	197.07	4	18.254	197.07
5	18.254	197.07	5	18.254	197.07	5	18.254	197.07	5	18.254	197.07
6	18.254	197.07	6	18.254	197.07	6	18.254	197.07	6	18.254	197.07
7	18.254	197.07	7	18.254	197.07	7	18.254	197.07	7	18.254	197.07
8	18.254	197.07	8	18.254	197.07	8	18.254	197.07	8	18.254	197.07
9	18.254	197.07	9	18.254	197.07	9	18.254	197.07	9	18.254	197.07
10	18.254	197.07	10	18.254	197.07	10	18.254	197.07	10	18.254	197.07

OCWT PERIODICITY TEST  
 MODE 2 -- LEADING EDGE DATA, WALL STATIONS  
 FILE 119 ALPHA-MCL = 6.0 PDP RUN PT 29.07  
 RUN 24 ALPHA-BAR = .5 O-COMP = .2881  
 POINT 0 SIGMA = 93. V-REF = 198.62  
 COMPUTED FREQUENCY = 19.16, K = .1515  
 FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

N=1705  
SUCTION

N	CPREAL	CPIMAG
1	17.546	3.642
2	1.813	1.513
3	1.112	1.123
4	1.127	1.098
5	1.023	1.001
6	1.039	1.098
7	1.019	1.025
8	1.045	1.031
9	1.043	1.039
10	1.043	1.039

N=1705  
SUCTION

N	CPREAL	CPIMAG
1	21.801	5.272
2	1.923	1.702
3	1.151	1.263
4	1.133	1.091
5	1.023	1.077
6	1.023	1.077
7	1.023	1.077
8	1.023	1.077
9	1.023	1.077
10	1.023	1.077

N=1705  
SUCTION

N	CPREAL	CPIMAG
1	7.976	1.255
2	1.347	1.078
3	1.099	1.078
4	1.023	1.078
5	1.023	1.078
6	1.023	1.078
7	1.023	1.078
8	1.023	1.078
9	1.023	1.078
10	1.023	1.078

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	17.095	3.642	1	17.095	3.642
2	1.813	1.513	2	1.813	1.513
3	1.112	1.123	3	1.112	1.123
4	1.127	1.098	4	1.127	1.098
5	1.023	1.001	5	1.023	1.001
6	1.039	1.098	6	1.039	1.098
7	1.019	1.025	7	1.019	1.025
8	1.045	1.031	8	1.045	1.031
9	1.043	1.039	9	1.043	1.039
10	1.043	1.039	10	1.043	1.039

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	17.095	3.642	1	17.095	3.642
2	1.813	1.513	2	1.813	1.513
3	1.112	1.123	3	1.112	1.123
4	1.127	1.098	4	1.127	1.098
5	1.023	1.001	5	1.023	1.001
6	1.039	1.098	6	1.039	1.098
7	1.019	1.025	7	1.019	1.025
8	1.045	1.031	8	1.045	1.031
9	1.043	1.039	9	1.043	1.039
10	1.043	1.039	10	1.043	1.039

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	17.095	3.642	1	17.095	3.642
2	1.813	1.513	2	1.813	1.513
3	1.112	1.123	3	1.112	1.123
4	1.127	1.098	4	1.127	1.098
5	1.023	1.001	5	1.023	1.001
6	1.039	1.098	6	1.039	1.098
7	1.019	1.025	7	1.019	1.025
8	1.045	1.031	8	1.045	1.031
9	1.043	1.039	9	1.043	1.039
10	1.043	1.039	10	1.043	1.039

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	17.095	3.642	1	17.095	3.642
2	1.813	1.513	2	1.813	1.513
3	1.112	1.123	3	1.112	1.123
4	1.127	1.098	4	1.127	1.098
5	1.023	1.001	5	1.023	1.001
6	1.039	1.098	6	1.039	1.098
7	1.019	1.025	7	1.019	1.025
8	1.045	1.031	8	1.045	1.031
9	1.043	1.039	9	1.043	1.039
10	1.043	1.039	10	1.043	1.039

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	17.095	3.642	1	17.095	3.642
2	1.813	1.513	2	1.813	1.513
3	1.112	1.123	3	1.112	1.123
4	1.127	1.098	4	1.127	1.098
5	1.023	1.001	5	1.023	1.001
6	1.039	1.098	6	1.039	1.098
7	1.019	1.025	7	1.019	1.025
8	1.045	1.031	8	1.045	1.031
9	1.043	1.039	9	1.043	1.039
10	1.043	1.039	10	1.043	1.039

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	17.095	3.642	1	17.095	3.642
2	1.813	1.513	2	1.813	1.513
3	1.112	1.123	3	1.112	1.123
4	1.127	1.098	4	1.127	1.098
5	1.023	1.001	5	1.023	1.001
6	1.039	1.098	6	1.039	1.098
7	1.019	1.025	7	1.019	1.025
8	1.045	1.031	8	1.045	1.031
9	1.043	1.039	9	1.043	1.039
10	1.043	1.039	10	1.043	1.039

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FILE = 119 ALPHA-MCL = 6.0 POP RUN = 17 24.017
PUN 2 ALPHA-BAR = .5 Q-COMP = 12.017
POINT 6 SIGNA = 97. V-REF = 18.62
      COMPTED FREQUENCY = 19.16. K = .1515

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FOURIER COEFFICIENTS, REAL & IMAGIN  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

**BLADE NO.**

[illegible]

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.

WALL NO GAP FRACTION	W3 .062			W4 .125			W5 .250			W7 .750			W8 .875			W9 .938		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	16	.924	1	13	.877	1	12	.502	1	10	.795	1	13	.866	1	13	.938	1
2	15	.937	2	12	.855	2	10	.527	2	9	.795	2	12	.866	2	12	.938	2
3	14	.942	3	11	.849	3	9	.542	3	8	.795	3	11	.866	3	11	.938	3
4	13	.949	4	10	.846	4	8	.557	4	7	.795	4	10	.866	4	10	.938	4
5	12	.953	5	9	.843	5	7	.572	5	6	.795	5	9	.866	5	9	.938	5
6	11	.958	6	8	.840	6	6	.587	6	5	.795	6	8	.866	6	8	.938	6
7	10	.962	7	7	.837	7	5	.602	7	4	.795	7	7	.866	7	7	.938	7
8	9	.967	8	6	.834	8	4	.617	8	3	.795	8	6	.866	8	6	.938	8
9	8	.971	9	5	.831	9	3	.632	9	2	.795	9	5	.866	9	5	.938	9
10	7	.976	10	4	.828	10	2	.647	10	1	.795	10	4	.866	10	4	.938	10

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MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 119 ALPHA-MCL = 6.0 POP RUN-PI 32.81  
CUN 24 ALPHA-BAR = 9.5 C-COMP = 32.81  
POINT 6 SIGMA = 9.5 V-REF = 108.62  
COMPUTED FREQUENCY = 19.16, X.E. .1515

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=005 SUCTION						
	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
	1 17.923 191.73	1 17.923 191.73	1 17.923 191.73	1 17.923 191.73	1 17.923 191.73	1 17.923 191.73
	2 1.704 116.11	2 1.704 116.11	2 1.704 116.11	2 1.704 116.11	2 1.704 116.11	2 1.704 116.11
	3 .176 348.53	3 .176 348.53	3 .176 348.53	3 .176 348.53	3 .176 348.53	3 .176 348.53
	4 .114 265.98	4 .114 265.98	4 .114 265.98	4 .114 265.98	4 .114 265.98	4 .114 265.98
	5 .095 351.10	5 .095 351.10	5 .095 351.10	5 .095 351.10	5 .095 351.10	5 .095 351.10
	6 .023 291.45	6 .023 291.45	6 .023 291.45	6 .023 291.45	6 .023 291.45	6 .023 291.45
	7 .031 352.64	7 .031 352.64	7 .031 352.64	7 .031 352.64	7 .031 352.64	7 .031 352.64
	8 .045 181.41	8 .045 181.41	8 .045 181.41	8 .045 181.41	8 .045 181.41	8 .045 181.41
	9 .058 222.72	9 .058 222.72	9 .058 222.72	9 .058 222.72	9 .058 222.72	9 .058 222.72
X=012 SUCTION						
	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
	1 22.437 193.59	1 22.437 193.59	1 22.437 193.59	1 22.437 193.59	1 22.437 193.59	1 22.437 193.59
	2 1.917 116.11	2 1.917 116.11	2 1.917 116.11	2 1.917 116.11	2 1.917 116.11	2 1.917 116.11
	3 .176 348.53	3 .176 348.53	3 .176 348.53	3 .176 348.53	3 .176 348.53	3 .176 348.53
	4 .114 265.98	4 .114 265.98	4 .114 265.98	4 .114 265.98	4 .114 265.98	4 .114 265.98
	5 .095 351.10	5 .095 351.10	5 .095 351.10	5 .095 351.10	5 .095 351.10	5 .095 351.10
	6 .023 291.45	6 .023 291.45	6 .023 291.45	6 .023 291.45	6 .023 291.45	6 .023 291.45
	7 .031 352.64	7 .031 352.64	7 .031 352.64	7 .031 352.64	7 .031 352.64	7 .031 352.64
	8 .045 181.41	8 .045 181.41	8 .045 181.41	8 .045 181.41	8 .045 181.41	8 .045 181.41
	9 .058 222.72	9 .058 222.72	9 .058 222.72	9 .058 222.72	9 .058 222.72	9 .058 222.72
X=030 SUCTION						
	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
	1 25.134 188.74	1 25.134 188.74	1 25.134 188.74	1 25.134 188.74	1 25.134 188.74	1 25.134 188.74
	2 1.917 116.11	2 1.917 116.11	2 1.917 116.11	2 1.917 116.11	2 1.917 116.11	2 1.917 116.11
	3 .176 348.53	3 .176 348.53	3 .176 348.53	3 .176 348.53	3 .176 348.53	3 .176 348.53
	4 .114 265.98	4 .114 265.98	4 .114 265.98	4 .114 265.98	4 .114 265.98	4 .114 265.98
	5 .095 351.10	5 .095 351.10	5 .095 351.10	5 .095 351.10	5 .095 351.10	5 .095 351.10
	6 .023 291.45	6 .023 291.45	6 .023 291.45	6 .023 291.45	6 .023 291.45	6 .023 291.45
	7 .031 352.64	7 .031 352.64	7 .031 352.64	7 .031 352.64	7 .031 352.64	7 .031 352.64
	8 .045 181.41	8 .045 181.41	8 .045 181.41	8 .045 181.41	8 .045 181.41	8 .045 181.41
	9 .058 222.72	9 .058 222.72	9 .058 222.72	9 .058 222.72	9 .058 222.72	9 .058 222.72

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 119 ALPHA-MCL = 6.0 POP RUN-PT 24.07  
 SUB ALPHA = 9.0 G-CORR = 32.081  
 POINT COMPTED FREQUENCY = 19.16. K = .1515  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	1	5	6	7	9
X=262 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	5.623 190.173	5.497 187.922	5.840 187.114	6.856 192.089	6.133 187.622
2	3.718 239.077	3.207 226.832	3.160 226.832	3.160 226.832	3.160 226.832
3	1.776 239.077	1.229 226.832	1.160 226.832	1.160 226.832	1.160 226.832
4	0.922 239.077	0.444 226.832	0.444 226.832	0.444 226.832	0.444 226.832
5	0.266 239.077	0.132 226.832	0.132 226.832	0.132 226.832	0.132 226.832
6	0.133 239.077	0.066 226.832	0.066 226.832	0.066 226.832	0.066 226.832
7	0.114 239.077	0.055 226.832	0.055 226.832	0.055 226.832	0.055 226.832
8	0.114 239.077	0.055 226.832	0.055 226.832	0.055 226.832	0.055 226.832
9	0.172 239.077	0.019 226.832	0.019 226.832	0.019 226.832	0.019 226.832
10	0.172 239.077	0.019 226.832	0.019 226.832	0.019 226.832	0.019 226.832
X=302 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	6.303 13.022	6.582 19.051	6.177 19.051	10.145 8.601	11.164 8.601
2	3.306 26.254	2.291 26.254	2.291 26.254	3.202 26.254	3.202 26.254
3	1.824 37.733	1.633 37.733	1.633 37.733	1.633 37.733	1.633 37.733
4	0.555 86.753	0.463 86.753	0.463 86.753	0.463 86.753	0.463 86.753
5	0.097 228.008	0.063 228.008	0.063 228.008	0.063 228.008	0.063 228.008
6	0.032 256.728	0.024 256.728	0.024 256.728	0.024 256.728	0.024 256.728
7	0.115 311.253	0.030 311.253	0.030 311.253	0.030 311.253	0.030 311.253
8	0.056 61.038	0.030 61.038	0.030 61.038	0.030 61.038	0.030 61.038
9	0.056 61.038	0.030 61.038	0.030 61.038	0.030 61.038	0.030 61.038
10	0.056 61.038	0.030 61.038	0.030 61.038	0.030 61.038	0.030 61.038

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

GAP FRACTION	362	425	475	498
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	17.114 183.055	13.970 183.055	1.635 152.715	1.589 152.715
2	5.165 221.163	4.766 221.163	1.635 152.715	1.589 152.715
3	1.278 251.560	1.303 251.560	1.635 152.715	1.589 152.715
4	0.058 251.560	0.053 251.560	1.635 152.715	1.589 152.715
5	0.027 251.560	0.021 251.560	1.635 152.715	1.589 152.715
6	0.027 251.560	0.021 251.560	1.635 152.715	1.589 152.715
7	0.027 251.560	0.021 251.560	1.635 152.715	1.589 152.715
8	0.027 251.560	0.021 251.560	1.635 152.715	1.589 152.715
9	0.027 251.560	0.021 251.560	1.635 152.715	1.589 152.715
10	0.027 251.560	0.021 251.560	1.635 152.715	1.589 152.715

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MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 121 ALPHA-MCL = 6.0 PDP RUN-PT 25.04  
C-REF = 135.0 C-COMP = 32222  
POINT 2 SIGMA = 199.14  
COMPUTED V-REF = 199.14  
FREQUENCY = 9.14, K = .0721

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

N CPREAL CPIMAG

1 .662-18.729  
2 -.089-2.799  
3 .763-2.745  
4 .066-.685  
5 .323-.147  
6 .231-.134  
7 .190-.149  
8 .270-.003  
9 .220-.216  
10 .020-.072

NCPION

1-19.610 19.915  
2-1.376 2.522  
3-1.598 2.616  
4-1.171 2.790  
5-.426 2.143  
6-.071 1.143  
7-.208 1.094  
8-.225 1.094  
9-.060 1.163  
10

NCPION

1 .221-8.992  
2 .252-1.457  
3 .657-1.347  
4 .344-1.408  
5 .250-1.089  
6 .228-1.196  
7 .238-1.021  
8 .135-.022  
9 .135-.022  
10 .015-.061

1-17.913 17.937  
2-1.196 2.395  
3-1.196 2.395  
4-1.196 2.395  
5-1.196 2.395  
6-1.196 2.395  
7-1.196 2.395  
8-1.196 2.395  
9-1.196 2.395  
10-1.196 2.395

1-17.913 17.937  
2-1.196 2.395  
3-1.196 2.395  
4-1.196 2.395  
5-1.196 2.395  
6-1.196 2.395  
7-1.196 2.395  
8-1.196 2.395  
9-1.196 2.395  
10-1.196 2.395



# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 123 ALPHA-MCH = 6.9 PDP RUN-PT 35252  
 RUN 23 ALPHA-BAR = 135 C-CHS = 199.14  
 POINT 2 SIGMA = 135 V-REF = 199.14  
 COMPUTED FREQUENCY = 9.14, K = .0721

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9						
SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-4	181	4.281	1	3.912	4.714	1	4.23	4.23	1	5.287	5.287
2	128	1.28	2.579	2	5.33	2.583	2	4.83	4.83	2	3.708	3.708
3	927	2.927	2.927	3	5.48	2.932	3	2.599	2.599	3	3.305	3.305
4	223	1.223	2.099	4	3.08	2.099	4	2.599	2.599	4	3.305	3.305
5	371	3.371	2.099	5	4.27	2.099	5	2.599	2.599	5	3.305	3.305
6	371	3.371	2.099	6	4.27	2.099	6	2.599	2.599	6	3.305	3.305
7	371	3.371	2.099	7	4.27	2.099	7	2.599	2.599	7	3.305	3.305
8	371	3.371	2.099	8	4.27	2.099	8	2.599	2.599	8	3.305	3.305
9	371	3.371	2.099	9	4.27	2.099	9	2.599	2.599	9	3.305	3.305
10	371	3.371	2.099	10	4.27	2.099	10	2.599	2.599	10	3.305	3.305
PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	5.686	4.999	1.999	1	4.195	6.608	1	1.738	1.738	1	9.467	9.467
2	4.45	2.517	2.517	2	4.09	2.602	2	2.819	2.819	2	1.064	1.064
3	4.376	2.948	2.948	3	2.768	2.948	3	2.819	2.819	3	1.064	1.064
4	4.376	2.948	2.948	4	2.768	2.948	4	2.819	2.819	4	1.064	1.064
5	4.376	2.948	2.948	5	2.768	2.948	5	2.819	2.819	5	1.064	1.064
6	4.376	2.948	2.948	6	2.768	2.948	6	2.819	2.819	6	1.064	1.064
7	4.376	2.948	2.948	7	2.768	2.948	7	2.819	2.819	7	1.064	1.064
8	4.376	2.948	2.948	8	2.768	2.948	8	2.819	2.819	8	1.064	1.064
9	4.376	2.948	2.948	9	2.768	2.948	9	2.819	2.819	9	1.064	1.064
10	4.376	2.948	2.948	10	2.768	2.948	10	2.819	2.819	10	1.064	1.064

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	W3	W3	W3	W3	W3	W3	W3	W3	W3	W3	W3	W3
GAP FRACTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	18.946	-2.036	1.176	1	-5.753	1.176	1	-2.130	2.130	1	-2.208	2.208
2	4.77	1.144	1.144	2	5.753	1.176	2	2.130	2.130	2	2.208	2.208
3	4.77	1.144	1.144	3	5.753	1.176	3	2.130	2.130	3	2.208	2.208
4	4.77	1.144	1.144	4	5.753	1.176	4	2.130	2.130	4	2.208	2.208
5	4.77	1.144	1.144	5	5.753	1.176	5	2.130	2.130	5	2.208	2.208
6	4.77	1.144	1.144	6	5.753	1.176	6	2.130	2.130	6	2.208	2.208
7	4.77	1.144	1.144	7	5.753	1.176	7	2.130	2.130	7	2.208	2.208
8	4.77	1.144	1.144	8	5.753	1.176	8	2.130	2.130	8	2.208	2.208
9	4.77	1.144	1.144	9	5.753	1.176	9	2.130	2.130	9	2.208	2.208
10	4.77	1.144	1.144	10	5.753	1.176	10	2.130	2.130	10	2.208	2.208

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MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 121 ALPHA-MCL = 6.0 PDP RUN-PT 25.22  
 RUN 22 ALPHA-SIGMA = 175.0 O-COIN = 3222  
 POINT 22 SIGMA = 175.0 V-PREF = 193.14  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
 COMPUTED FREQUENCY = 9.14, K = .0721  
 UNBIASED PHASE ANGLE

BLADE NO.	3	4	5	6	7	9									
X=POS SUCFLO4	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	27.949	129.56	1	23.1	183.96	1	22.3	179.03	1	21.7	180.53	1	16.4	188.54
	2	27.949	136.51	2	23.1	184.34	2	22.3	180.53	2	21.7	180.53	2	16.4	188.54
	3	27.949	142.51	3	23.1	179.03	3	22.3	179.03	3	21.7	179.03	3	16.4	179.03
	4	27.949	149.51	4	23.1	184.34	4	22.3	184.34	4	21.7	184.34	4	16.4	184.34
	5	27.949	156.51	5	23.1	189.03	5	22.3	189.03	5	21.7	189.03	5	16.4	189.03
	6	27.949	163.51	6	23.1	194.34	6	22.3	194.34	6	21.7	194.34	6	16.4	194.34
	7	27.949	170.51	7	23.1	200.03	7	22.3	200.03	7	21.7	200.03	7	16.4	200.03
	8	27.949	177.51	8	23.1	205.34	8	22.3	205.34	8	21.7	205.34	8	16.4	205.34
	9	27.949	184.51	9	23.1	211.03	9	22.3	211.03	9	21.7	211.03	9	16.4	211.03
	10	27.949	191.51	10	23.1	216.34	10	22.3	216.34	10	21.7	216.34	10	16.4	216.34

XE-775  
SUCTION

XE-775  
SUCTION

XE-775  
SUCTION

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 121 ALPHA-MCL = 6.8 PDP RUN-PI 25.04  
 RUN 25 ALPHA-BAR = 32.252  
 POINT 3 O-COMP = 109.14  
 SIGMA = 135 V-REF = 0.721  
 COMPUTED FREQUENCY = 9.14, K = .0721

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
X=0.62 SUCTION	1	5.984	179.32	1	5.239	179.51	1	6.126	195.31	1	6.582	133.68	1	7.371	180.82	1	6.082	187.99
	2	2.658	111.29	2	2.927	189.01	2	2.640	124.03	2	2.976	161.51	2	2.461	37.09	2	2.476	119.90
	3	1.045	204.30	3	2.766	165.87	3	2.650	113.49	3	2.970	277.04	3	2.957	122.60	3	2.675	136.07
	4	1.451	120.32	4	3.375	271.40	4	4.562	194.49	4	4.59	225.60	4	4.022	150.70	4	4.439	160.51
	5	1.276	194.65	5	4.184	335.76	5	1.78	111.19	5	1.133	254.60	5	4.533	135.70	5	4.44	178.08
	6	1.133	118.24	6	1.070	255.99	6	1.38	12.93	6	1.133	176.06	6	1.100	173.59	6	1.091	159.51
	7	1.133	333.92	7	1.070	208.21	7	1.38	176.06	7	1.133	166.35	7	1.100	173.59	7	1.091	159.51
	8	1.133	337.23	8	1.070	44.43	8	1.38	176.06	8	1.133	166.35	8	1.100	173.59	8	1.091	159.51
	9	1.133	337.23	9	1.070	44.43	9	1.38	176.06	9	1.133	166.35	9	1.100	173.59	9	1.091	159.51
	10	1.133	337.23	10	1.070	44.43	10	1.38	176.06	10	1.133	166.35	10	1.100	173.59	10	1.091	159.51
X=0.12 PRESSURE	1	7.571	3.68	1	7.828	12.59	1	7.828	12.59	1	9.845	17.17	1	12.809	2.69	1	11.950	37.108
	2	2.510	35.00	2	2.711	12.59	2	2.711	12.59	2	2.952	19.77	2	3.272	26.33	2	2.950	11.008
	3	1.343	114.57	3	1.962	156.88	3	1.962	156.88	3	1.962	27.50	3	1.014	159.33	3	1.028	20.27
	4	1.343	114.57	4	1.962	156.88	4	1.962	156.88	4	1.962	27.50	4	1.014	159.33	4	1.028	20.27
	5	1.343	114.57	5	1.962	156.88	5	1.962	156.88	5	1.962	27.50	5	1.014	159.33	5	1.028	20.27
	6	1.343	114.57	6	1.962	156.88	6	1.962	156.88	6	1.962	27.50	6	1.014	159.33	6	1.028	20.27
	7	1.343	114.57	7	1.962	156.88	7	1.962	156.88	7	1.962	27.50	7	1.014	159.33	7	1.028	20.27
	8	1.343	114.57	8	1.962	156.88	8	1.962	156.88	8	1.962	27.50	8	1.014	159.33	8	1.028	20.27
	9	1.343	114.57	9	1.962	156.88	9	1.962	156.88	9	1.962	27.50	9	1.014	159.33	9	1.028	20.27
	10	1.343	114.57	10	1.962	156.88	10	1.962	156.88	10	1.962	27.50	10	1.014	159.33	10	1.028	20.27

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	M3			M4			M5			M7			M8			M9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	1.570	136.17	1	1.570	136.17	1	1.570	136.17	1	1.570	136.17	1	1.570	136.17	1	1.570	136.17
	2	1.570	136.17	2	1.570	136.17	2	1.570	136.17	2	1.570	136.17	2	1.570	136.17	2	1.570	136.17
	3	1.570	136.17	3	1.570	136.17	3	1.570	136.17	3	1.570	136.17	3	1.570	136.17	3	1.570	136.17
	4	1.570	136.17	4	1.570	136.17	4	1.570	136.17	4	1.570	136.17	4	1.570	136.17	4	1.570	136.17
	5	1.570	136.17	5	1.570	136.17	5	1.570	136.17	5	1.570	136.17	5	1.570	136.17	5	1.570	136.17
	6	1.570	136.17	6	1.570	136.17	6	1.570	136.17	6	1.570	136.17	6	1.570	136.17	6	1.570	136.17
	7	1.570	136.17	7	1.570	136.17	7	1.570	136.17	7	1.570	136.17	7	1.570	136.17	7	1.570	136.17
	8	1.570	136.17	8	1.570	136.17	8	1.570	136.17	8	1.570	136.17	8	1.570	136.17	8	1.570	136.17
	9	1.570	136.17	9	1.570	136.17	9	1.570	136.17	9	1.570	136.17	9	1.570	136.17	9	1.570	136.17
	10	1.570	136.17	10	1.570	136.17	10	1.570	136.17	10	1.570	136.17	10	1.570	136.17	10	1.570	136.17

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 123 ALPHA-MCL = 6.0 PDP RUN PT 25.00  
DUN 25 ALPHA-BAR = .3100  
POINT 5 SIGMA = 135.0  
COMPUTED FREQUENCY = 15.50, K = .1229

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

N	CPREAL	CPIMAG
1	1.465	-19.836
2	-.723	-2.053
3	-.723	.773
4	-.723	.150
5	-.723	.091
6	-.723	-.074
7	-.723	-.052
8	-.723	-.038
9	-.723	-.025
10	-.723	-.010
11	-.723	-.006

SECTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1-18	.543	23.718	1	11.934	19.174	1-17	.792	-2.252	1-10	.238	-12.975
2	.510	.110	2	-.893	.111	2	-.723	1.558	2	.238	.543
3	.604	.170	3	-.189	.111	3	.238	1.100	3	.238	.543
4	.173	.074	4	-.577	.111	4	.238	.074	4	.238	.543
5	.098	.035	5	-.173	.111	5	.238	.074	5	.238	.543
6	.048	.012	6	-.073	.111	6	.238	.074	6	.238	.543
7	.029	.006	7	-.033	.111	7	.238	.074	7	.238	.543
8	.019	.003	8	-.019	.111	8	.238	.074	8	.238	.543
9	.011	.002	9	-.009	.111	9	.238	.074	9	.238	.543
10	.006	.001	10	-.005	.111	10	.238	.074	10	.238	.543

SECTION

N	CPREAL	CPIMAG
1	.792	-9.233
2	.245	1.692
3	.245	.320
4	.245	.291
5	.245	.050
6	.245	.006
7	.245	.006
8	.245	.006
9	.245	.006
10	.245	.006

ORIGINAL PAGE IS  
OF POOR QUALITY

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 123 ALPHA-MCL = 6.0 PDP RUN PT 35486  
PUN 125 ALPHA-BAR = 135.0 C-COMP = 198.04  
POINT 4 SIGMA = 135.0 V-REF = 198.04  
COMPUTED FREQUENCY = 15.50, K = .1229

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	1	2	3	4	5	6	7	9	
X=062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	-3.855	3.721	1	4.632	3.833	1	6.072	-6.196
2	2	-0.008	3.291	2	5.312	3.468	2	5.886	-5.312
3	3	-0.008	3.004	3	5.312	3.237	3	5.886	-5.312
4	4	-0.008	2.738	4	5.312	2.975	4	5.886	-5.312
5	5	-0.008	2.461	5	5.312	2.712	5	5.886	-5.312
6	6	-0.008	2.184	6	5.312	2.449	6	5.886	-5.312
7	7	-0.008	1.907	7	5.312	2.186	7	5.886	-5.312
8	8	-0.008	1.630	8	5.312	1.923	8	5.886	-5.312
9	9	-0.008	1.353	9	5.312	1.660	9	5.886	-5.312
10	10	-0.008	1.076	10	5.312	1.397	10	5.886	-5.312
X=012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	6.086	-6.196	1	-3.881	-7.531	1	-8.056	7.738
2	2	-0.114	3.291	2	-2.591	-3.320	2	-1.064	7.055
3	3	-0.114	3.004	3	-2.591	-3.056	3	-1.064	6.771
4	4	-0.114	2.738	4	-2.591	-2.792	4	-1.064	6.487
5	5	-0.114	2.461	5	-2.591	-2.528	5	-1.064	6.203
6	6	-0.114	2.184	6	-2.591	-2.264	6	-1.064	5.919
7	7	-0.114	1.907	7	-2.591	-2.000	7	-1.064	5.635
8	8	-0.114	1.630	8	-2.591	-1.736	8	-1.064	5.351
9	9	-0.114	1.353	9	-2.591	-1.472	9	-1.064	5.067
10	10	-0.114	1.076	10	-2.591	-1.208	10	-1.064	4.783

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	1	2	3	4	5	6	7	9
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-17.780	-2.326	1	-4.393	-1.236	1	-1.072	9.236
2	-6.048	-1.944	2	-3.559	-0.944	2	-1.072	8.952
3	-1.008	-1.562	3	-2.725	-0.644	3	-1.072	8.668
4	-0.008	-1.180	4	-1.891	-0.344	4	-1.072	8.384
5	-0.008	-0.798	5	-1.057	-0.044	5	-1.072	8.100
6	-0.008	-0.416	6	-0.223	0.256	6	-1.072	7.816
7	-0.008	0.032	7	0.611	0.556	7	-1.072	7.532
8	-0.008	0.384	8	1.445	0.856	8	-1.072	7.248
9	-0.008	0.736	9	2.279	1.156	9	-1.072	6.964
10	-0.008	1.088	10	3.113	1.456	10	-1.072	6.680

ORIGINAL PAGE IS  
OF POOR QUALITY

MODE 2 --- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 123 ALPHA-MCL = 6.0 POP RUN.PI 35.00  
RUN 23 ALPHA-BAR = 135.0 C-COMP = 319.00  
POINT 4 SIGMA = 135.0 V-REF = 199.00  
COMPUTED FREQUENCY = 15.50, K = .1220  
FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

N	CP-MAG	PHI
1	19.890	104.22
2	12.053	190.15
3	1.058	223.07
4	.322	152.33
5	.104	40.33
6	.069	45.10
7	.038	217.45
8	.019	216.82
9	.001	118.21
10	.001	118.21

N	CP-MAG	PHI
1	19.890	104.22
2	12.053	190.15
3	1.058	223.07
4	.322	152.33
5	.104	40.33
6	.069	45.10
7	.038	217.45
8	.019	216.82
9	.001	118.21
10	.001	118.21

7

6

5

4

3

BLADE NO. 3

XE-012  
SUC-012

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	27.508	177.36	1	22.532	193.32	1	17.924	187.22	1	22.874	183.19
2	.507	104.26	2	1.945	170.77	2	1.539	101.25	2	.613	120.60
3	.752	158.75	3	1.257	206.02	3	.238	348.24	3	.609	120.60
4	.974	272.16	4	.941	125.44	4	.035	348.24	4	.248	180.50
5	.154	229.16	5	.589	227.82	5	.027	348.24	5	.475	180.50
6	.050	128.35	6	.123	168.75	6	.027	348.24	6	.061	223.07
7	.174	189.88	7	.069	196.80	7	.026	348.24	7	.037	216.80
8	.089	292.74	8	.052	170.27	8	.035	348.24	8	.030	216.80
9			9			9	.075	348.24	9	.052	223.07
10			10			10			10	.088	223.07

XE-012  
SUC-012

N	CP-MAG	PHI
1	9.267	184.91
2	1.717	197.24
3	.492	310.54
4	.331	101.46
5	.257	101.46
6	.037	216.80
7	.037	216.80
8	.012	223.07
9	.012	223.07
10	.012	223.07

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MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS
OCWT PERIODICITY TEST
LE 133 ALPHA-HCL = 6.0 POP RUN PT 25.06
NN 24 ALPHA-BR = 13.5 Q-COMP = 3.1906
INT 4 SIGMA = 13.5 V-REF = 198.04
TUDE COMPUTED FREQUENCY = 15.50. K = .1229
DIAN UNBIASED PHASE ANGLE
D ***

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FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

**BLADE NO.**

X-1762  
SUC-1762

PRE-SUB?

USE WALL PRESSURES. PER RADIAN SEE

**GAP FACTORY**

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 125 ALPHA-MCL = 6.0 PDP RUN PT 25.08  
PUN 25 ALPHA-BAR = 5 O-COMP = .3188  
POINT 6 SIGMA = 135. V-REF = 108.25  
COMPUTED FREQUENCY = 19.13, K = .1516

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=005  
SUCTION

N	CPREAL	CPIMAG
1	.932	-19.374
2	.692	-2.956
3	.110	.884
4	-.106	.168
5	-.027	-.065
6	.111	.045
7	-.010	-.117
8	-.033	.049
9	-.027	.034
10	-.041	.040

X=012  
SUCTION

N	CPREAL	CPIMAG
1	1.872	-24.730
2	.644	-3.506
3	-.161	.832
4	.099	.140
5	-.049	-.076
6	.113	.025
7	-.018	-.125
8	-.051	.051
9	-.059	.048
10	-.053	.054

X=032  
SUCTION

N	CPREAL	CPIMAG
1	1.849	-21.036
2	1.762	-1.900
3	1.156	1.377
4	.024	.078
5	-.118	.155
6	-.032	-.073
7	-.235	-.285
8	-.152	-.197
9	-.218	-.197
10	-.074	.122

9

7

6

5

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1.728	-12.644	1	16.282	-15.163	1	18.736	-2.078	1	19.587	19.587
2	1.203	-.101	2	.830	-.030	2	-.051	1.375	2	-1.082	-1.082
3	.054	.454	3	.073	.000	3	-.539	1.317	3	.837	.837
4	.240	.154	4	.254	.000	4	-.142	-.150	4	-.270	-.270
5	.090	.001	5	.385	.000	5	.046	-.003	5	.002	.002
6	.110	-.001	6	.171	.000	6	.046	-.003	6	.112	.112
7	.082	.061	7	.076	.000	7	.012	-.003	7	.025	.025
8	.027	.056	8	.140	.000	8	.012	-.003	8	.025	.025
9	.034	.056	9	.024	.000	9	.047	.015	9	-.014	-.014
10	.012	.020	10	.051	.000	10	.046	.015	10	-.014	-.014



# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 125 ALPHA-MCL = 6.0 PDP RUN-PT 35.00  
 RUN 25 ALPHA-BAR = .31969  
 POINT 6 SIGMA = 135.0  
 COMPUTED FREQUENCY = 19.13, K = .1516

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLANE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

SECTION 262

	4		5		6		7		8		9		10		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	-.4210	5.066	1	3.989	4.997	1	-6.615	-.165	1	5.287	-5.179	1	7.585	-.466
2	2	-.7966	-.972	2	1.3514	-.735	2	-.832	-.119	2	1.229	-.682	2	7.099	-.350
3	3	-.200	-.174	3	-.059	-.286	3	-.822	-.153	3	1.227	-.682	3	7.120	-.311
4	4	-.043	-.004	4	-.003	-.006	4	-.173	-.102	4	-.257	-.021	4	7.219	-.060
5	5	-.009	-.018	5	-.051	-.135	5	-.098	-.009	5	-.062	-.019	5	7.029	-.040
6	6	-.017	-.145	6	-.024	-.002	6	-.026	-.009	6	-.097	-.033	6	7.029	-.029
7	7	-.115	-.134	7	-.017	-.001	7	-.013	-.020	7	-.059	-.026	7	7.015	-.031
8	8	-.124	-.027	8	-.011	-.001	8	-.013	-.020	8	-.032	-.018	8	7.007	-.029
9	9	-.117	-.069	9	-.008	-.002	9	-.013	-.020	9	-.032	-.018	9	7.002	-.010
10	10	-.003	-.003	10	-.001	-.001	10	-.013	-.025	10	-.035	-.000	10	7.002	-.010

	5		6		7		8		9		10	
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	5.50	-.523	1	3.371	4.613	1	2.129	2.129	1	9.007	9.007
2	2	-.716	-.933	2	1.070	1.070	2	-1.221	-1.221	2	-1.001	-1.001
3	3	-.120	-.233	3	-.125	-.174	3	-.226	-.226	3	-1.508	-1.508
4	4	-.031	-.037	4	-.002	-.011	4	-.073	-.073	4	-.005	-.005
5	5	-.056	-.037	5	-.008	-.025	5	-.050	-.050	5	-.005	-.005
6	6	-.058	-.100	6	-.008	-.039	6	-.009	-.009	6	-.005	-.005
7	7	-.059	-.160	7	-.007	-.031	7	-.009	-.009	7	-.005	-.005
8	8	-.059	-.222	8	-.007	-.017	8	-.019	-.019	8	-.005	-.005
9	9	-.059	-.282	9	-.007	-.017	9	-.019	-.019	9	-.005	-.005
10	10	-.059	-.342	10	-.007	-.017	10	-.019	-.019	10	-.005	-.005

SECTION 012

	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	5.450	-.521	1	1.371	-.613	1	7.505	10.392	1	7.505	10.392
2	2	-.716	-.933	2	1.070	1.018	2	-.912	-.607	2	7.505	10.392
3	3	-.120	-.246	3	-.125	-.171	3	-.227	-.508	3	7.505	10.392
4	4	-.016	-.031	4	-.017	-.016	4	-.113	-.405	4	7.505	10.392
5	5	-.031	-.037	5	-.008	-.025	5	-.061	-.313	5	7.505	10.392
6	6	-.056	-.150	6	-.008	-.025	6	-.028	-.222	6	7.505	10.392
7	7	-.058	-.060	7	-.009	-.011	7	-.028	-.222	7	7.505	10.392
8	8	-.065	-.012	8	-.007	-.017	8	-.035	-.222	8	7.505	10.392
9	9	-.059	-.041	9	-.007	-.017	9	-.035	-.222	9	7.505	10.392
10	10	-.041	-.041	10	-.007	-.017	10	-.035	-.222	10	7.505	10.392

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

SECTION 062

	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	1.199	-.132	1	1.415	-.748	1	2.961	1.076	1	2.961	1.076
2	2	-.324	-.058	2	1.071	-.429	2	1.561	-.107	2	1.561	-.107
3	3	-.003	-.053	3	-.202	-.108	3	-.069	-.222	3	-.069	-.222
4	4	-.004	-.044	4	-.011	-.020	4	-.021	-.000	4	-.021	-.000
5	5	-.065	-.112	5	-.042	-.043	5	-.020	-.051	5	-.020	-.051
6	6	-.038	-.017	6	-.054	-.019	6	-.009	-.008	6	-.009	-.008
7	7	-.047	-.030	7	-.019	-.011	7	-.001	-.008	7	-.001	-.008
8	8	-.024	-.006	8	-.019	-.011	8	-.001	-.008	8	-.001	-.008
9	9	-.024	-.006	9	-.019	-.011	9	-.001	-.008	9	-.001	-.008
10	10	-.024	-.006	10	-.019	-.011	10	-.001	-.008	10	-.001	-.008

ORIGINAL PAGE IS  
OF GOOD QUALITY

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 125 ALPHA-MCL = 6.0 P-RUN-PT 25.08  
RUM 125 ALPHA-BAR = 11.09  
POINT 6 SIGMA = 13.5 O-COMP = 11.09  
COMPUTED FREQUENCY = 19.13, K = .1516  
V-REF = 19.025

FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIANT \*\*\*

BLADE NO. 3

X=0.05  
SUCTION

N	CP-MAG	PHI
1	19.395	182.67
2	3.037	103.24
3	.891	187.24
4	.190	122.13
5	.170	157.51
6	.120	137.87
7	.118	135.4
8	.059	132.68
9	.047	132.88
10	.057	315.80

X=0.12  
SUCTION

N	CP-MAG	PHI
1	29.801	164.33
2	3.646	103.97
3	.847	192.24
4	.171	125.21
5	.096	149.09
6	.137	132.39
7	.127	134.62
8	.075	131.61
9	.076	314.63
10		

X=0.20  
SUCTION

N	CP-MAG	PHI
1	52.322	181.98
2	1.152	12.06
3	.355	125.23
4	.072	87.73
5	.046	69.09
6	.046	135.19
7	.046	135.19
8	.046	135.19
9	.046	135.19
10	.046	135.19

9

7

6

5

4

3

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	28.011	176.03	1	22.319	191.05	1	18.021	186.74	1	22.249	182.09	1	17.207	182.19	1	17.207	182.19
2	1.179	181.51	2	1.077	166.04	2	1.376	192.13	2	.673	316.01	2	1.057	308.24	2	1.057	308.24
3	1.072	181.27	3	1.272	187.01	3	.677	31.97	3	.469	315.12	3	.286	322.95	3	.286	322.95
4	.072	181.27	4	.232	195.16	4	.057	226.60	4	.106	279.75	4	.141	187.03	4	.141	187.03
5	.072	181.27	5	.139	199.07	5	.057	232.08	5	.091	272.52	5	.102	270.39	5	.102	270.39
6	.072	181.27	6	.053	151.85	6	.046	286.15	6	.059	308.05	6	.102	270.39	6	.102	270.39
7	.072	181.27	7	.024	174.25	7	.046	337.40	7	.059	308.05	7	.102	270.39	7	.102	270.39
8	.072	181.27	8	.018	174.25	8	.046	337.40	8	.059	308.05	8	.102	270.39	8	.102	270.39
9	.072	181.27	9			9			9			9			9		
10	.072	181.27	10			10			10			10			10		

ORIGINAL PAGE IS  
OF POOR QUALITY

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 125 ALPHA-MCR = 6.0 POP RUN PI 2538  
PUN 0-CONF = 1188  
POINT 9 SIGMA = 135.0  
FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
COMPUTED FREQUENCY = 19.13. N = .1516  
UNBIASED PHASE ANGLE

BLADE NO.	3	4	5	6	7	9						
SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	5.285	174.76	1	6.278	185.54	1	7.400	180.59	1	6.578	180.61
2	2	1.503	270.00	2	1.330	271.00	2	1.406	180.59	2	3.331	180.61
3	3	.003	270.00	3	.003	271.00	3	.003	180.59	3	.003	180.61
4	4	.003	270.00	4	.003	271.00	4	.003	180.59	4	.003	180.61
5	5	.003	270.00	5	.003	271.00	5	.003	180.59	5	.003	180.61
6	6	.003	270.00	6	.003	271.00	6	.003	180.59	6	.003	180.61
7	7	.003	270.00	7	.003	271.00	7	.003	180.59	7	.003	180.61
8	8	.003	270.00	8	.003	271.00	8	.003	180.59	8	.003	180.61
9	9	.003	270.00	9	.003	271.00	9	.003	180.59	9	.003	180.61
10	10	.003	270.00	10	.003	271.00	10	.003	180.59	10	.003	180.61
PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	7.081	5.32	1	7.435	8.96	1	12.620	35.80	1	12.778	36.00
2	2	1.179	27.99	2	1.304	35.07	2	1.557	20.96	2	1.630	20.00
3	3	.214	265.76	3	.193	230.37	3	.175	276.27	3	.163	269.14
4	4	.150	265.51	4	.115	310.33	4	.063	276.27	4	.063	269.14
5	5	.085	230.33	5	.008	317.38	5	.042	283.09	5	.042	269.14
6	6	.072	235.51	6	.027	227.92	6	.042	283.09	6	.042	269.14
7	7	.072	235.51	7	.008	265.61	7	.036	298.70	7	.036	269.14
8	8	.072	235.51	8	.008	265.61	8	.036	298.70	8	.036	269.14
9	9	.072	235.51	9	.008	265.61	9	.036	298.70	9	.036	269.14
10	10	.072	235.51	10	.008	265.61	10	.036	298.70	10	.036	269.14

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	.062			.125			.250			.375			.475			.575			.675			.775		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	19.989	83.0	1	15.485	74.2	1	5.645	26.4	1	2.693	13.0	1	2.493	12.6	1	2.558	12.7	1	2.563	12.7	1	2.563	12.7
2	2	19.509	83.0	2	15.457	74.2	2	5.645	26.4	2	2.693	13.0	2	2.493	12.6	2	2.558	12.7	2	2.563	12.7	2	2.563	12.7
3	3	19.509	83.0	3	15.457	74.2	3	5.645	26.4	3	2.693	13.0	3	2.493	12.6	3	2.558	12.7	3	2.563	12.7	3	2.563	12.7
4	4	19.509	83.0	4	15.457	74.2	4	5.645	26.4	4	2.693	13.0	4	2.493	12.6	4	2.558	12.7	4	2.563	12.7	4	2.563	12.7
5	5	19.509	83.0	5	15.457	74.2	5	5.645	26.4	5	2.693	13.0	5	2.493	12.6	5	2.558	12.7	5	2.563	12.7	5	2.563	12.7
6	6	19.509	83.0	6	15.457	74.2	6	5.645	26.4	6	2.693	13.0	6	2.493	12.6	6	2.558	12.7	6	2.563	12.7	6	2.563	12.7
7	7	19.509	83.0	7	15.457	74.2	7	5.645	26.4	7	2.693	13.0	7	2.493	12.6	7	2.558	12.7	7	2.563	12.7	7	2.563	12.7
8	8	19.509	83.0	8	15.457	74.2	8	5.645	26.4	8	2.693	13.0	8	2.493	12.6	8	2.558	12.7	8	2.563	12.7	8	2.563	12.7
9	9	19.509	83.0	9	15.457	74.2	9	5.645	26.4	9	2.693	13.0	9	2.493	12.6	9	2.558	12.7	9	2.563	12.7	9	2.563	12.7
10	10	19.509	83.0	10	15.457	74.2	10	5.645	26.4	10	2.693	13.0	10	2.493	12.6	10	2.558	12.7	10	2.563	12.7	10	2.563	12.7

ORIGINAL PAGE IS  
OF POOR QUALITY

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 133 ALPHA-MCL = 6.0 PDF RUN-PT 27.05  
 RUN 27 ALPHA-BAR = .5 O-COM = .2818  
 POINT 2 SIGMA = 1.2 V-REF = 200.87  
 FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=105  
SUCTION

N	CPREAL	CPIMAG
1-26	.759	.143
2	.622	.159
3	.536	.180
4	.425	.401
5	.338	.095
6	.162	.037
7	.261	.046
8	.054	.001
9	.232	.072
10	.222	.107

X=132  
SUCTION

N	CPREAL	CPIMAG
1-26	.499	.186
2	.662	.359
3	.761	.702
4	.701	.175
5	.516	.032
6	.305	.186
7	.002	.009
8	.275	.033
9	.204	.033
10	.204	.033

X=133  
SUCTION

N	CPREAL	CPIMAG
1-26	.512	.284
2	.598	.397
3	.207	.262
4	.225	.094
5	.193	.036
6	.108	.006
7	.146	.071
8	.146	.071
9	.146	.071
10	.146	.071

9

7

6

5

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	27.735	-2.739	1	22.669	-1.035	1	22.194	-1.215	1	16.492	-1.215	1	16.492	-1.215	1	16.492	-1.215
2	1.524	.638	2	1.035	-.176	2	-.234	-.641	2	-.234	-.641	2	-.234	-.641	2	-.234	-.641
3	1.524	.547	3	-.176	-.234	3	-.641	-.234	3	-.641	-.234	3	-.641	-.234	3	-.641	-.234
4	1.524	.547	4	-.234	-.641	4	-.234	-.641	4	-.234	-.641	4	-.234	-.641	4	-.234	-.641
5	1.524	.547	5	-.641	-.234	5	-.234	-.641	5	-.234	-.641	5	-.234	-.641	5	-.234	-.641
6	1.524	.547	6	-.234	-.641	6	-.234	-.641	6	-.234	-.641	6	-.234	-.641	6	-.234	-.641
7	1.524	.547	7	-.234	-.641	7	-.234	-.641	7	-.234	-.641	7	-.234	-.641	7	-.234	-.641
8	1.524	.547	8	-.234	-.641	8	-.234	-.641	8	-.234	-.641	8	-.234	-.641	8	-.234	-.641
9	1.524	.547	9	-.234	-.641	9	-.234	-.641	9	-.234	-.641	9	-.234	-.641	9	-.234	-.641
10	1.524	.547	10	-.234	-.641	10	-.234	-.641	10	-.234	-.641	10	-.234	-.641	10	-.234	-.641

MODE 2 -- LEADING EDGE PLATE DATA, WALL STATIONS

FILE 123  
PUN 127  
POINT 122

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FILE 123 ALPHA-MCL = 6.0 PDP RUN-PT = 22.15
PUN 27 ALPHA-BAR = 0.5 Q-COMP = 2.895
POINT 1 SIGMA = 18.0 V-REF = 203.87
COMPUTED FREQUENCY = 9.06 K = .0709

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

**SUC-10N**  
**X-762**

BLADE NO.	3			4			5			6			7			9		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	6.6941	-	0.05	5.499	-	0.47	1.23	-	0.47	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
2	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
3	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
4	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
5	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
6	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
7	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
8	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
9	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
10	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
11	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
12	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
13	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
14	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
15	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
16	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
17	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
18	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
19	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
20	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
21	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
22	6.463	-	0.05	5.313	-	0.48	1.23	-	0.48	5.69	-	0.57	1.23	-	0.57	6.4265	-	0.50
23	6																	

\*\*\* WALL PRESSURE, PER RADIAN \*\*\*

## HALF NO. 1

WAVELENGTH IN MICRONS	W3 0.62			W4 1.25			W5 2.50			W7 7.50			W8 8.75			W9 9.38		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1-18	1	18	66	1	15	169	1	380	1	775	1	679	1	1	290	1	1	72
2	1	55	12	2	5	103	2	380	2	583	2	355	2	3	290	2	3	299
3	1	58	17	3	10	127	3	963	3	346	3	350	3	4	369	4	4	303
4	1	60	21	4	10	141	4	069	4	374	4	390	4	5	367	5	5	303
5	1	60	25	5	10	149	5	089	5	050	5	330	5	6	357	6	6	306
6	1	60	29	6	10	157	6	081	6	347	6	337	6	7	318	7	7	316
7	1	60	31	7	10	162	7	061	7	346	7	167	7	8	148	8	8	169
8	1	60	32	8	10	165	8	010	8	225	8	113	8	9	103	9	9	109
9	1	60	34	9	10	169	9	010	9	125	9	10	10	10	10	10	10	10

ORIGINAL PAGE IS  
OF POOR QUALITY

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 123 ALPHA-MCH = 6.8 POP RUN PT 27.05  
 RUN 27 ALPHA-BAR = 22.18  
 POINT 2 C-COMP = 23.18  
 COMPUTED FREQUENCY = 9.06, K = .0709  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=0.05  
SUCUION

N	CP-MAG	PHI
1	20.759	179.60
2	17.94	173.94
3	13.047	130.37
4	11.0.37	114.8.38
5	12.4.38	12.4.38
6	11.0.35	11.0.35
7	11.0.35	11.0.35
8	11.0.35	11.0.35
9	11.0.35	11.0.35
10	11.0.35	11.0.35

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	27.838	175.37	1	23.271	176.97	1	22.217	176.86	1	16.000	179.37	1	16.000	179.37
2	1.615	173.94	2	1.667	186.09	2	1.910	225.23	2	1.779	202.80	2	1.779	202.80
3	1.522	172.79	3	1.873	164.14	3	1.996	222.69	3	1.365	206.16	3	1.365	206.16
4	1.522	172.79	4	1.873	164.14	4	1.996	222.69	4	1.365	206.16	4	1.365	206.16
5	1.522	172.79	5	1.873	164.14	5	1.996	222.69	5	1.365	206.16	5	1.365	206.16
6	1.522	172.79	6	1.873	164.14	6	1.996	222.69	6	1.365	206.16	6	1.365	206.16
7	1.522	172.79	7	1.873	164.14	7	1.996	222.69	7	1.365	206.16	7	1.365	206.16
8	1.522	172.79	8	1.873	164.14	8	1.996	222.69	8	1.365	206.16	8	1.365	206.16
9	1.522	172.79	9	1.873	164.14	9	1.996	222.69	9	1.365	206.16	9	1.365	206.16
10	1.522	172.79	10	1.873	164.14	10	1.996	222.69	10	1.365	206.16	10	1.365	206.16

X=0.12  
SUCUION

N	CP-MAG	PHI
1	26.500	175.37
2	1.615	173.94
3	1.522	172.79
4	1.522	172.79
5	1.522	172.79
6	1.522	172.79
7	1.522	172.79
8	1.522	172.79
9	1.522	172.79
10	1.522	172.79

ORIGINAL PAGE IS  
OF POOR QUALITY

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS  
FILE 133 ALPHA-MCL = 6.0 POP RUN-PT 27.05  
PUN 27 ALPHA-BAR = 33.18  
POINT 2 SIGMA = 187.0 O-COMP = 200.87  
COMPUTED FREQUENCY = 9.06, N = .0709  
FOURIER COEFFICIENTS, AMPLITUDE  
UNBIASED PHASE ANGLE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9						
SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	6.640	179.02	179.02	6.514	193.97	193.97	6.171	174.71	174.71	1.233	174.71	174.71
2	.370	140.52	140.52	.611	229.71	229.71	.725	170.95	170.95	1.233	170.95	170.95
3	.419	162.32	162.32	.421	204.87	204.87	.418	169.99	169.99	1.233	169.99	169.99
4	.498	195.45	195.45	.215	220.17	220.17	.078	179.12	179.12	1.233	179.12	179.12
5	.106	117.23	117.23	.056	221.55	221.55	.269	168.43	168.43	1.233	168.43	168.43
6	.256	135.89	135.89	.273	157.73	157.73	.020	159.68	159.68	1.233	159.68	159.68
7	.071	111.42	111.42	.038	174.05	174.05	.152	150.37	150.37	1.233	150.37	150.37
8	.152	141.45	141.45	.184	167.52	167.52	.118	171.94	171.94	1.233	171.94	171.94
9	.012	181.45	181.45	.199	173.62	173.62	.118	171.94	171.94	1.233	171.94	171.94
10	.012	181.45	181.45	.199	173.62	173.62	.118	171.94	171.94	1.233	171.94	171.94
PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	7.062	354.05	354.05	7.549	350.48	350.48	10.898	1.25	1.25	1.233	1.25	1.25
2	.511	375.89	375.89	.660	340.09	340.09	.713	16.97	16.97	1.233	16.97	16.97
3	.633	186.49	186.49	.667	227.51	227.51	.713	172.21	172.21	1.233	172.21	172.21
4	.186	222.47	222.47	.085	225.86	225.86	.114	169.13	169.13	1.233	169.13	169.13
5	.222	323.41	323.41	.085	227.52	227.52	.114	171.13	171.13	1.233	171.13	171.13
6	.222	323.41	323.41	.085	227.52	227.52	.114	171.13	171.13	1.233	171.13	171.13
7	.127	148.36	148.36	.267	156.77	156.77	.109	140.66	140.66	1.233	140.66	140.66
8	.127	148.36	148.36	.267	156.77	156.77	.109	140.66	140.66	1.233	140.66	140.66
9	.127	148.36	148.36	.267	156.77	156.77	.109	140.66	140.66	1.233	140.66	140.66
10	.127	148.36	148.36	.267	156.77	156.77	.109	140.66	140.66	1.233	140.66	140.66
WALL NO.	W2	W3	W4	W5	W6	W7	W8	W9	W10			
GAP FRACTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	18.959	174.33	174.33	15.220	174.80	174.80	1.730	162.91	162.91	1.233	162.91	162.91
2	.646	180.09	180.09	.667	152.59	152.59	.529	159.88	159.88	1.233	159.88	159.88
3	.425	190.09	190.09	.667	152.59	152.59	.529	159.88	159.88	1.233	159.88	159.88
4	.153	122.39	122.39	.157	150.91	150.91	.152	151.87	151.87	1.233	151.87	151.87
5	.442	108.89	108.89	.373	131.51	131.51	.152	151.87	151.87	1.233	151.87	151.87
6	.097	108.89	108.89	.373	131.51	131.51	.152	151.87	151.87	1.233	151.87	151.87
7	.145	165.45	165.45	.273	135.71	135.71	.152	151.87	151.87	1.233	151.87	151.87
8	.145	165.45	165.45	.273	135.71	135.71	.152	151.87	151.87	1.233	151.87	151.87
9	.145	165.45	165.45	.273	135.71	135.71	.152	151.87	151.87	1.233	151.87	151.87
10	.145	165.45	165.45	.273	135.71	135.71	.152	151.87	151.87	1.233	151.87	151.87

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

ORIGINAL PAGE IS  
OF POOR QUALITY

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 115 ALPHA-MCL = 6.3 PDP RUN-PI 27.07  
PUN 27 ALPHA = 18.5 C-COMP = 32.906  
POINT " SIGMA = 18.5 V-REF = 201.14  
COMPUTED FREQUENCY = 15.44, K = .1205

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
XZ=032 SUCTION	N CPREAL CPI MAG 1-21.605 1.919 2 .322 2 .107 3 -1.572 .060 4 .164 .159 5 .171 .039 6 .150 .088 7 .128 .120 8 .059 .042	N CPREAL CPI MAG 1-27.574 3.002 2 .326 3.489 3 -1.277 .008 4 .231 .075 5 .249 .175 6 .217 .026 7 .154 .100 8 .132 .190 9 .135 .347	N CPREAL CPI MAG 1-25.828 1.492 2 .922 1.195 3 .777 1.169 4 .045 1.149 5 .258 1.261 6 .250 1.222 7 .111 .088 8 .000 .088 9 .011 .088	N CPREAL CPI MAG 1-19.433 1.635 2 .039 1.319 3 .076 1.369 4 .117 1.375 5 .151 .086 6 .137 .050 7 .139 .053 8 .037 .053 9 .061 .051	N CPREAL CPI MAG 1-1.336 1.336 2 .088 1.088 3 .053 1.053 4 .012 1.012 5 .017 1.017 6 .017 1.017 7 .017 1.017 8 .017 1.017 9 .017 1.017	N CPREAL CPI MAG 1-15.365 15.365 2 .815 15.815 3 .440 15.440 4 .205 15.205 5 .016 15.016 6 .016 15.016 7 .016 15.016 8 .016 15.016 9 .016 15.016
XZ=033 SUCTION	N CPREAL CPI MAG 1-26.826 1.325 2 .826 1.735 3 .620 1.499 4 .178 .227 5 .033 .005 6 .068 .005 7 .068 .005 8 .026 .005 9 .026 .005	N CPREAL CPI MAG 1-27.574 3.002 2 .326 3.489 3 -1.277 .008 4 .231 .075 5 .249 .175 6 .217 .026 7 .154 .100 8 .132 .190 9 .135 .347	N CPREAL CPI MAG 1-25.828 1.492 2 .922 1.195 3 .777 1.169 4 .045 1.149 5 .258 1.261 6 .250 1.222 7 .111 .088 8 .000 .088 9 .011 .088	N CPREAL CPI MAG 1-19.433 1.635 2 .039 1.319 3 .076 1.369 4 .117 1.375 5 .151 .086 6 .137 .050 7 .139 .053 8 .037 .053 9 .061 .051	N CPREAL CPI MAG 1-1.336 1.336 2 .088 1.088 3 .053 1.053 4 .012 1.012 5 .017 1.017 6 .017 1.017 7 .017 1.017 8 .017 1.017 9 .017 1.017	N CPREAL CPI MAG 1-15.365 15.365 2 .815 15.815 3 .440 15.440 4 .205 15.205 5 .016 15.016 6 .016 15.016 7 .016 15.016 8 .016 15.016 9 .016 15.016
XZ=034 SUCTION	N CPREAL CPI MAG 1-27.574 3.002 2 .326 3.489 3 -1.277 .008 4 .231 .075 5 .249 .175 6 .217 .026 7 .154 .100 8 .132 .190 9 .135 .347	N CPREAL CPI MAG 1-27.574 3.002 2 .326 3.489 3 -1.277 .008 4 .231 .075 5 .249 .175 6 .217 .026 7 .154 .100 8 .132 .190 9 .135 .347	N CPREAL CPI MAG 1-25.828 1.492 2 .922 1.195 3 .777 1.169 4 .045 1.149 5 .258 1.261 6 .250 1.222 7 .111 .088 8 .000 .088 9 .011 .088	N CPREAL CPI MAG 1-19.433 1.635 2 .039 1.319 3 .076 1.369 4 .117 1.375 5 .151 .086 6 .137 .050 7 .139 .053 8 .037 .053 9 .061 .051	N CPREAL CPI MAG 1-1.336 1.336 2 .088 1.088 3 .053 1.053 4 .012 1.012 5 .017 1.017 6 .017 1.017 7 .017 1.017 8 .017 1.017 9 .017 1.017	N CPREAL CPI MAG 1-15.365 15.365 2 .815 15.815 3 .440 15.440 4 .205 15.205 5 .016 15.016 6 .016 15.016 7 .016 15.016 8 .016 15.016 9 .016 15.016





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MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 135 ALPHA-MCL = 6.0 PUN-PT 21.07  
PUN 27 ALPHA-BAR = 3.26  
POINT 4 SIGMA = 187.0  
COMPUTED FREQUENCY = 15.00, K = .1205  
FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=012 SUCTION	N CP-MAG PHI 1 21.690 174.92 2 2.323 180.45 3 1.876 176.11 4 .060 87.67 5 .172 112.69 6 .155 114.48 7 .119 219.41 8 .193 112.44 9 .072 324.18	N CP-MAG PHI 1 27.647 175.85 2 3.511 182.60 3 1.710 177.48 4 .242 113.97 5 .181 105.47 6 .218 125.85 7 .187 216.18 8 .235 333.80 9 .105 333.80	N CP-MAG PHI 1 19.531 175.19 2 1.520 88.60 3 .176 287.27 4 .139 135.29 5 .113 125.68 6 .119 208.30 7 .113 208.30 8 .054 35.89 9 .054 35.89	N CP-MAG PHI 1 22.154 176.03 2 1.668 236.81 3 .023 9.04 4 .053 105.04 5 .174 217.20 6 .039 257.57 7 .178 257.57 8 .075 143.51 9 .119 143.51	N CP-MAG PHI 1 15.013 175.09 2 .016 187.51 3 .253 10.15 4 .103 232.76 5 .054 206.51 6 .038 206.51 7 .069 181.71 8 .078 181.71	N CP-MAG PHI 1 23.374 175.19 2 2.374 88.60 3 1.600 287.27 4 .279 135.29 5 .678 125.68 6 7.80 208.30 7 8.00 208.30 8 9.00 35.89 9 10.00 35.89
X=032 SUCTION	N CP-MAG PHI 1 26.919 177.18 2 1.749 182.60 3 .777 179.41 4 .289 113.97 5 .078 105.47 6 .196 125.85 7 .196 216.18 8 .241 333.80 9 .045 333.80	N CP-MAG PHI 1 27.647 175.85 2 3.511 182.60 3 1.710 177.48 4 .242 113.97 5 .181 105.47 6 .218 125.85 7 .187 216.18 8 .235 333.80 9 .105 333.80	N CP-MAG PHI 1 19.531 175.19 2 1.520 88.60 3 .176 287.27 4 .139 135.29 5 .113 125.68 6 .119 208.30 7 .113 208.30 8 .054 35.89 9 .054 35.89	N CP-MAG PHI 1 22.154 176.03 2 1.668 236.81 3 .023 9.04 4 .053 105.04 5 .174 217.20 6 .039 257.57 7 .178 257.57 8 .075 143.51 9 .119 143.51	N CP-MAG PHI 1 15.013 175.09 2 .016 187.51 3 .253 10.15 4 .103 232.76 5 .054 206.51 6 .038 206.51 7 .069 181.71 8 .078 181.71	N CP-MAG PHI 1 23.374 175.19 2 2.374 88.60 3 1.600 287.27 4 .279 135.29 5 .678 125.68 6 7.80 208.30 7 8.00 208.30 8 9.00 35.89 9 10.00 35.89

X=032  
SUCTION

N CP-MAG PHI
1 9.003 174.16
2 1.610 187.90
3 .119 294.81
4 .249 137.29
5 .189 137.29
6 .189 137.29
7 .135 206.79
8 .135 206.79
9 .135 206.79

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MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 117 ALPHA-MCL = 6.9 PDP RUN PI 27.07  
 RUN 27 ALPHA-BAR = 18.3 C-COMP = 22.06  
 POINT 4 SIGMA = 18.3 V-REF = 21.14  
 FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	-3-			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
X-762 SUCTION	1	5.635	183.25	1	6.158	174.08	1	5.739	188.34	1	7.094	172.00	1	7.088	181.03	1	5.489	180.57
	2	3.351	132.40	2	1.687	179.37	2	3.910	172.24	2	4.479	152.55	2	0.233	142.78	2	0.829	187.35
	3	1.112	27.21	3	0.337	170.54	3	2.241	155.67	3	0.111	152.74	3	0.233	230.63	3	1.68	157.35
	4	1.112	254.38	4	0.337	221.84	4	0.064	156.77	4	0.311	178.26	4	0.045	230.63	4	0.147	201.28
	5	0.052	199.38	5	0.137	122.84	5	0.064	219.14	5	0.119	50.87	5	0.045	230.63	5	0.045	201.28
	6	0.094	239.11	6	0.126	214.77	6	0.085	213.55	6	0.119	50.87	6	0.045	230.63	6	0.147	201.28
	7	0.094	238.59	7	0.126	214.77	7	0.085	213.55	7	0.119	50.87	7	0.045	230.63	7	0.147	201.28
	8	0.122	5.08	8	0.048	309.40	8	0.014	125.72	8	0.119	50.87	8	0.045	230.63	8	0.147	201.28
	9	0.122	5.08	9	0.048	309.40	9	0.014	125.72	9	0.119	50.87	9	0.045	230.63	9	0.147	201.28
	10	0.122	5.08	10	0.048	309.40	10	0.014	125.72	10	0.119	50.87	10	0.045	230.63	10	0.147	201.28

X-762 PRESSURE	N			N			N			N			N			N		
	CP-MAG	PHI	PHI	CP-MAG	PHI	PHI	CP-MAG	PHI	PHI	CP-MAG	PHI	PHI	CP-MAG	PHI	PHI	CP-MAG	PHI	PHI
	1	8.117	355.86	1	8.386	357.07	1	9.978	2.30	1	9.978	2.30	1	15.107	3.63	1	12.511	3.63
	2	0.974	144.86	2	0.568	153.07	2	0.471	168.02	2	0.471	168.02	2	0.471	168.02	2	0.471	168.02
	3	0.127	292.30	3	0.118	220.07	3	0.084	220.07	3	0.084	220.07	3	0.084	220.07	3	0.084	220.07
	4	0.127	292.30	4	0.118	220.07	4	0.084	220.07	4	0.084	220.07	4	0.084	220.07	4	0.084	220.07
	5	0.127	292.30	5	0.118	220.07	5	0.084	220.07	5	0.084	220.07	5	0.084	220.07	5	0.084	220.07
	6	0.127	292.30	6	0.118	220.07	6	0.084	220.07	6	0.084	220.07	6	0.084	220.07	6	0.084	220.07
	7	0.127	292.30	7	0.118	220.07	7	0.084	220.07	7	0.084	220.07	7	0.084	220.07	7	0.084	220.07
	8	0.127	292.30	8	0.118	220.07	8	0.084	220.07	8	0.084	220.07	8	0.084	220.07	8	0.084	220.07
	9	0.127	292.30	9	0.118	220.07	9	0.084	220.07	9	0.084	220.07	9	0.084	220.07	9	0.084	220.07
	10	0.127	292.30	10	0.118	220.07	10	0.084	220.07	10	0.084	220.07	10	0.084	220.07	10	0.084	220.07

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

X-762 GAP FRACTION	-3-			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	19.037	123.85	1	16.274	175.84	1	5.984	167.57	1	3.36	58	1	3.36	58	1	3.36	58
	2	0.725	192.46	2	0.861	182.09	2	1.518	182.09	2	1.518	182.09	2	1.518	182.09	2	1.518	182.09
	3	0.103	348.91	3	0.301	159.16	3	0.077	170.57	3	0.077	170.57	3	0.077	170.57	3	0.077	170.57
	4	0.103	348.91	4	0.301	159.16	4	0.077	170.57	4	0.077	170.57	4	0.077	170.57	4	0.077	170.57
	5	0.103	348.91	5	0.301	159.16	5	0.077	170.57	5	0.077	170.57	5	0.077	170.57	5	0.077	170.57
	6	0.103	348.91	6	0.301	159.16	6	0.077	170.57	6	0.077	170.57	6	0.077	170.57	6	0.077	170.57
	7	0.103	348.91	7	0.301	159.16	7	0.077	170.57	7	0.077	170.57	7	0.077	170.57	7	0.077	170.57
	8	0.103	348.91	8	0.301	159.16	8	0.077	170.57	8	0.077	170.57	8	0.077	170.57	8	0.077	170.57
	9	0.103	348.91	9	0.301	159.16	9	0.077	170.57	9	0.077	170.57	9	0.077	170.57	9	0.077	170.57
	10	0.103	348.91	10	0.301	159.16	10	0.077	170.57	10	0.077	170.57	10	0.077	170.57	10	0.077	170.57

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MODE 2 -- LEADING EDGE PLATE DATA, WALL STATIONS

FILE 137 ALPHA-MCL = 6.0 PDF RUN PT 37.99  
 RUN 27 C-COMPS = 2672  
 POINT 6 SIGMA = 18.5 V-REF = 200.42  
 COMPUTED FREQUENCY = 19.06 K = .1693

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=705  
 SUCTION

N CPREAL CPIMAG  
 1-21 .066 1.766  
 2-21 .824 1.170  
 3-21 .872 .495  
 4-21 .268 .167  
 5-21 .093 .012  
 6-21 .007 .013  
 7-21 .054 .037  
 8-21 .039 .092  
 9-21 .009 .057  
 10-21 .000 .000

X=712  
 SUCTION

N CPREAL CPIMAG  
 1-27 .956 1.862  
 2-27 .514 .374  
 3-27 .185 .086  
 4-27 .104 .122  
 5-27 .043 .045  
 6-27 .016 .018  
 7-27 .007 .008  
 8-27 .003 .004  
 9-27 .001 .002  
 10-27 .000 .000

X=720  
 SUCTION

N CPREAL CPIMAG  
 1-8 .313 .569  
 2-8 .316 .248  
 3-8 .447 .177  
 4-8 .398 .109  
 5-8 .222 .032  
 6-8 .112 .070  
 7-8 .014 .014  
 8-8 .023 .043  
 9-8 .021 .026  
 10-8 .000 .000

9

7

6

5

N CPREAL CPIMAG  
 1-16 .699 1.755  
 2-16 .709 .521  
 3-16 .108 .247  
 4-16 .027 .140  
 5-16 .005 .057  
 6-16 .071 .040  
 7-16 .019 .028  
 8-16 .003 .010  
 9-16 .000 .000

N CPREAL CPIMAG  
 1-23 .046 1.779  
 2-23 .134 .521  
 3-23 .093 .247  
 4-23 .225 .140  
 5-23 .007 .057  
 6-23 .003 .040  
 7-23 .000 .028  
 8-23 .000 .010  
 9-23 .000 .000

N CPREAL CPIMAG  
 1-23 .046 1.779  
 2-23 .134 .521  
 3-23 .093 .247  
 4-23 .225 .140  
 5-23 .007 .057  
 6-23 .003 .040  
 7-23 .000 .028  
 8-23 .000 .010  
 9-23 .000 .000

N CPREAL CPIMAG  
 1-23 .046 1.779  
 2-23 .134 .521  
 3-23 .093 .247  
 4-23 .225 .140  
 5-23 .007 .057  
 6-23 .003 .040  
 7-23 .000 .028  
 8-23 .000 .010  
 9-23 .000 .000

N CPREAL CPIMAG  
 1-23 .046 1.779  
 2-23 .134 .521  
 3-23 .093 .247  
 4-23 .225 .140  
 5-23 .007 .057  
 6-23 .003 .040  
 7-23 .000 .028  
 8-23 .000 .010  
 9-23 .000 .000

N CPREAL CPIMAG  
 1-23 .046 1.779  
 2-23 .134 .521  
 3-23 .093 .247  
 4-23 .225 .140  
 5-23 .007 .057  
 6-23 .003 .040  
 7-23 .000 .028  
 8-23 .000 .010  
 9-23 .000 .000

N CPREAL CPIMAG  
 1-23 .046 1.779  
 2-23 .134 .521  
 3-23 .093 .247  
 4-23 .225 .140  
 5-23 .007 .057  
 6-23 .003 .040  
 7-23 .000 .028  
 8-23 .000 .010  
 9-23 .000 .000

N CPREAL CPIMAG  
 1-23 .046 1.779  
 2-23 .134 .521  
 3-23 .093 .247  
 4-23 .225 .140  
 5-23 .007 .057  
 6-23 .003 .040  
 7-23 .000 .028  
 8-23 .000 .010  
 9-23 .000 .000

N CPREAL CPIMAG  
 1-23 .046 1.779  
 2-23 .134 .521  
 3-23 .093 .247  
 4-23 .225 .140  
 5-23 .007 .057  
 6-23 .003 .040  
 7-23 .000 .028  
 8-23 .000 .010  
 9-23 .000 .000

N CPREAL CPIMAG  
 1-23 .046 1.779  
 2-23 .134 .521  
 3-23 .093 .247  
 4-23 .225 .140  
 5-23 .007 .057  
 6-23 .003 .040  
 7-23 .000 .028  
 8-23 .000 .010  
 9-23 .000 .000

N CPREAL CPIMAG  
 1-23 .046 1.779  
 2-23 .134 .521  
 3-23 .093 .247  
 4-23 .225 .140  
 5-23 .007 .057  
 6-23 .003 .040  
 7-23 .000 .028  
 8-23 .000 .010  
 9-23 .000 .000

N CPREAL CPIMAG  
 1-23 .046 1.779  
 2-23 .134 .521  
 3-23 .093 .247  
 4-23 .225 .140  
 5-23 .007 .057  
 6-23 .003 .040  
 7-23 .000 .028  
 8-23 .000 .010  
 9-23 .000 .000

N CPREAL CPIMAG  
 1-23 .046 1.779  
 2-23 .134 .521  
 3-23 .093 .247  
 4-23 .225 .140  
 5-23 .007 .057  
 6-23 .003 .040  
 7-23 .000 .028  
 8-23 .000 .010  
 9-23 .000 .000

N CPREAL CPIMAG  
 1-23 .046 1.779  
 2-23 .134 .521  
 3-23 .093 .247  
 4-23 .225 .140  
 5-23 .007 .057  
 6-23 .003 .040  
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N CPREAL CPIMAG  
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 3-23 .093 .247  
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 5-23 .007 .057  
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OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

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FILE 137 ALPHA-MCL = 6.0 POP RUN PT 32.09
PUR 27 ALPHA-HR = .5 O-COMP = 32642
POINT 6 SIGMA = 18.0 V-REF = 30.42
COMPUTED FREQUENCY = 19.56, K = .149

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FOURIER COEFFICIENTS, REAL & IMAGIN  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

**BLADE NO.**

X=762 SUCTION											
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	6.289	-.098	1	6.568	-.335	1	6.695	-.519	1	7.964	-.216
2	3.160	-.099	2	.361	-.335	2	.061	-.770	2	.252	-.162
3	2.444	-.099	3	.184	-.106	3	.033	-.011	3	.093	-.158
4	.255	-.099	4	.047	-.027	4	.005	-.031	4	.034	-.052
5	.081	-.099	5	.017	-.009	5	.002	-.002	5	.002	-.002
6	.005	-.099	6	.002	-.009	6	.000	-.002	6	.000	-.002
7	.000	-.099	7	.000	-.009	7	.000	-.002	7	.000	-.002
8	.000	-.099	8	.000	-.009	8	.000	-.002	8	.000	-.002
9	.000	-.099	9	.000	-.009	9	.000	-.002	9	.000	-.002
10	.000	-.099	10	.000	-.009	10	.000	-.002	10	.000	-.002

  

X=042 PRESSURE											
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-7.532	-.399	1	-7.983	-.150	1	-10.695	-.502	1	-13.412	-.724
2	.005	-.645	2	.153	-.081	2	.097	-.151	2	.141	-.077
3	.006	-.033	3	.035	-.002	3	.041	-.033	3	.061	-.008
4	.000	-.123	4	.044	-.020	4	.028	-.009	4	.020	-.020
5	.000	-.028	5	.031	-.016	5	.015	-.007	5	.009	-.030
6	.000	-.016	6	.005	-.007	6	.003	-.006	6	.003	-.003
7	.000	-.003	7	.000	-.003	7	.000	-.003	7	.000	-.003
8	.000	-.003	8	.000	-.003	8	.000	-.003	8	.000	-.003
9	.000	-.003	9	.000	-.003	9	.000	-.003	9	.000	-.003
10	.000	-.003	10	.000	-.003	10	.000	-.003	10	.000	-.003

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

**NOI ON CAPTION**

W3		W4		W5		W7		W8		W9	
N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL
1	-1.8945	1	-1.1540	1	-5.005	1	-1.980	1	-2.130	1	-2.025
2	-1.249	2	-1.135	2	-2.05	2	-1.267	2	-1.39	2	-1.12
3	-1.176	3	-1.05	3	-1.96	3	-2.047	3	-2.018	3	-1.092
4	-1.015	4	-1.151	4	-1.040	4	-0.947	4	-0.69	4	-0.520
5	-0.915	5	-0.94	5	-0.900	5	-0.948	5	-0.69	5	-0.510
6	-1.069	6	-0.961	6	-0.95	6	-0.938	6	-0.69	6	-0.519
7	-0.949	7	-0.954	7	-0.900	7	-0.948	7	-0.69	7	-0.510
8	-1.069	8	-0.961	8	-0.95	8	-0.938	8	-0.69	8	-0.519
9	-0.949	9	-0.954	9	-0.900	9	-0.948	9	-0.69	9	-0.510
10	-1.069	10	-0.961	10	-0.95	10	-0.938	10	-0.69	10	-0.519

ORIGINAL PAGE IS  
OF POOR QUALITY

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 137 ALPHA-MCL = 6.8 POP RUN.PI 27.69  
 PUN 27 ALPHA-BAR = 328.93  
 POINT 6 SIGMA = 187.0 O-COMP = 203.42  
 COMPTED FREQUENCY = 19.06. K = .1093

FOUPIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

SECTION

N	CP-MAG	PHI
1	21.139	175.21
2	1.431	150.40
3	1.316	131.91
4	.132	227.48
5	.134	290.59
6	.018	225.57
7	.066	225.57
8	.100	225.57
9	.058	225.57
10	.058	225.57

SECTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	27	551	177.81	1	27	120	176.06	1	27	120	176.06	1	27	120	176.06
2	369	16.50	16.50	2	369	16.50	16.50	2	369	16.50	16.50	2	369	16.50	16.50
3	369	16.50	16.50	3	369	16.50	16.50	3	369	16.50	16.50	3	369	16.50	16.50
4	369	16.50	16.50	4	369	16.50	16.50	4	369	16.50	16.50	4	369	16.50	16.50
5	369	16.50	16.50	5	369	16.50	16.50	5	369	16.50	16.50	5	369	16.50	16.50
6	369	16.50	16.50	6	369	16.50	16.50	6	369	16.50	16.50	6	369	16.50	16.50
7	369	16.50	16.50	7	369	16.50	16.50	7	369	16.50	16.50	7	369	16.50	16.50
8	369	16.50	16.50	8	369	16.50	16.50	8	369	16.50	16.50	8	369	16.50	16.50
9	369	16.50	16.50	9	369	16.50	16.50	9	369	16.50	16.50	9	369	16.50	16.50
10	369	16.50	16.50	10	369	16.50	16.50	10	369	16.50	16.50	10	369	16.50	16.50

SECTION

N	CP-MAG	PHI
1	27	120
2	369	16.50
3	369	16.50
4	369	16.50
5	369	16.50
6	369	16.50
7	369	16.50
8	369	16.50
9	369	16.50
10	369	16.50

ORIGINAL PAGE IS  
OF POOR QUALITY

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 137 ALPHA-MCL = 6.8 POP SUM.PI 22.69  
DUM 26 ALPHA-SAR = 32672 O-COMF = 22672  
POINT 6 V-REF = 22672  
COMPUTED FREQUENCY = 19.36 K = .1893  
FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=0.62 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	6.270 179.00	5.553 179.08	6.577 192.92	6.239 175.29	7.972 177.52	6.594 177.99
2	6.169 178.71	5.433 178.53	6.461 192.11	6.172 174.52	7.861 177.00	6.481 177.00
3	6.069 178.42	5.313 178.24	6.351 191.30	6.061 173.71	7.751 176.21	6.371 176.21
4	5.969 178.13	5.193 177.95	6.241 190.49	5.951 172.90	7.641 175.40	6.261 175.40
5	5.869 177.84	5.073 177.66	6.131 189.68	5.841 172.09	7.531 174.60	6.151 174.60
6	5.769 177.55	4.953 177.37	6.021 188.87	5.731 171.28	7.421 173.80	6.041 173.80
7	5.669 177.26	4.833 177.08	5.911 188.06	5.621 170.47	7.311 173.00	5.931 173.00
8	5.569 176.97	4.713 176.79	5.801 187.25	5.511 169.66	7.201 172.20	5.821 172.20
9	5.469 176.68	4.593 176.50	5.691 186.44	5.401 168.85	7.091 171.40	5.711 171.40
10	5.369 176.39	4.473 176.21	5.581 185.63	5.291 168.04	6.981 170.60	5.601 170.60
11	5.269 176.10	4.353 175.92	5.471 184.82	5.181 167.23	6.871 169.80	5.491 169.80
12	5.169 175.81	4.233 175.63	5.361 184.01	5.071 166.42	6.761 169.00	5.381 169.00
13	5.069 175.52	4.113 175.34	5.251 183.20	4.961 165.61	6.651 168.20	5.271 168.20
14	4.969 175.23	3.993 175.05	5.141 182.39	4.851 164.80	6.541 167.40	5.161 167.40
15	4.869 174.94	3.873 174.76	5.031 181.58	4.741 163.99	6.431 166.60	5.051 166.60
16	4.769 174.65	3.753 174.47	4.921 180.77	4.631 163.18	6.321 165.80	4.941 165.80
17	4.669 174.36	3.633 174.18	4.811 179.96	4.521 162.37	6.211 165.00	4.831 165.00
18	4.569 174.07	3.513 173.89	4.701 179.15	4.411 161.56	6.101 164.20	4.721 164.20
19	4.469 173.78	3.393 173.60	4.591 178.34	4.301 160.75	5.991 163.40	4.611 163.40
20	4.369 173.49	3.273 173.31	4.481 177.53	4.191 159.94	5.881 162.60	4.501 162.60
21	4.269 173.20	3.153 173.02	4.371 176.72	4.081 159.13	5.771 161.80	4.391 161.80
22	4.169 172.91	3.033 172.73	4.261 175.91	3.971 158.32	5.661 161.00	4.281 161.00
23	4.069 172.62	2.913 172.44	4.151 175.10	3.861 157.51	5.551 160.20	4.171 160.20
24	3.969 172.33	2.793 172.15	4.041 174.29	3.751 156.70	5.441 159.40	4.061 159.40
25	3.869 172.04	2.673 171.86	3.931 173.48	3.641 155.89	5.331 158.60	3.951 158.60
26	3.769 171.75	2.553 171.57	3.821 172.67	3.531 155.08	5.221 157.80	3.841 157.80
27	3.669 171.46	2.433 171.28	3.711 171.86	3.421 154.27	5.111 157.00	3.731 157.00
28	3.569 171.17	2.313 170.99	3.601 171.05	3.311 153.46	5.001 156.20	3.621 156.20
29	3.469 170.88	2.193 170.70	3.491 170.24	3.201 152.65	4.891 155.40	3.511 155.40
30	3.369 170.59	2.073 170.41	3.381 169.43	3.091 151.84	4.781 154.60	3.401 154.60
31	3.269 170.30	1.953 170.12	3.271 168.62	2.981 151.03	4.671 153.80	3.291 153.80
32	3.169 170.01	1.833 169.83	3.161 167.81	2.871 150.22	4.561 153.00	3.181 153.00
33	3.069 169.72	1.713 169.54	3.051 167.00	2.761 149.41	4.451 152.20	3.071 152.20
34	2.969 169.43	1.593 169.25	2.941 166.19	2.651 148.60	4.341 151.40	2.961 151.40
35	2.869 169.14	1.473 168.96	2.831 165.38	2.541 147.79	4.231 150.60	2.851 150.60
36	2.769 168.85	1.353 168.67	2.721 164.57	2.431 146.98	4.121 149.80	2.741 149.80
37	2.669 168.56	1.233 168.38	2.611 163.76	2.321 146.17	4.011 149.00	2.631 149.00
38	2.569 168.27	1.113 168.09	2.501 162.95	2.211 145.36	3.901 148.20	2.521 148.20
39	2.469 167.98	0.993 167.80	2.391 162.14	2.101 144.55	3.791 147.40	2.411 147.40
40	2.369 167.69	0.873 167.51	2.281 161.33	1.991 143.74	3.681 146.60	2.301 146.60
41	2.269 167.40	0.753 167.22	2.171 160.52	1.881 142.93	3.571 145.80	2.191 145.80
42	2.169 167.11	0.633 166.93	2.061 159.71	1.771 142.12	3.461 145.00	2.081 145.00
43	2.069 166.82	0.513 166.64	1.951 158.90	1.661 141.31	3.351 144.20	1.971 144.20
44	1.969 166.53	0.393 166.35	1.841 158.09	1.551 140.50	3.241 143.40	1.861 143.40
45	1.869 166.24	0.273 166.06	1.731 157.28	1.441 139.69	3.131 142.60	1.751 142.60
46	1.769 165.95	0.153 165.77	1.621 156.47	1.331 138.88	3.021 141.80	1.641 141.80
47	1.669 165.66	0.033 165.48	1.511 155.66	1.221 138.07	2.911 141.00	1.531 141.00
48	1.569 165.37	0.000 165.19	1.401 154.85	1.111 137.26	2.801 140.20	1.421 140.20
49	1.469 165.08	0.000 164.90	1.291 154.04	1.001 136.45	2.691 139.40	1.311 139.40
50	1.369 164.79	0.000 164.61	1.181 153.23	0.891 135.64	2.581 138.60	1.201 138.60
51	1.269 164.50	0.000 164.32	1.071 152.42	0.781 134.83	2.471 137.80	1.091 137.80
52	1.169 164.21	0.000 164.03	0.961 151.61	0.671 134.02	2.361 137.00	0.981 137.00
53	1.069 163.92	0.000 163.74	0.851 150.80	0.561 133.21	2.251 136.20	0.871 136.20
54	0.969 163.63	0.000 163.45	0.741 150.00	0.451 132.40	2.141 135.40	0.761 135.40
55	0.869 163.34	0.000 163.16	0.631 149.19	0.341 131.59	2.031 134.60	0.651 134.60
56	0.769 163.05	0.000 162.87	0.521 148.38	0.231 130.78	1.921 133.80	0.541 133.80
57	0.669 162.76	0.000 162.58	0.411 147.57	0.121 129.97	1.811 133.00	0.431 133.00
58	0.569 162.47	0.000 162.29	0.301 146.76	0.011 129.16	1.701 132.20	0.321 132.20
59	0.469 162.18	0.000 162.00	0.191 145.95	0.000 128.35	1.591 131.40	0.211 131.40
60	0.369 161.89	0.000 161.71	0.081 145.14	0.000 127.54	1.481 130.60	0.101 130.60
61	0.269 161.60	0.000 161.42	0.000 144.33	0.000 126.73	1.371 129.80	0.000 129.80
62	0.169 161.31	0.000 161.13	0.000 143.52	0.000 125.92	1.261 129.00	0.000 129.00
63	0.069 161.02	0.000 160.84	0.000 142.71	0.000 125.11	1.151 128.20	0.000 128.20
64	0.000 160.73	0.000 160.55	0.000 141.90	0.000 124.30	1.041 127.40	0.000 127.40
65	0.000 160.44	0.000 160.26	0.000 141.09	0.000 123.49	0.931 126.60	0.000 126.60
66	0.000 160.15	0.000 160.00	0.000 140.28	0.000 122.68	0.821 125.80	0.000 125.80
67	0.000 159.86	0.000 159.71	0.000 139.47	0.000 121.87	0.711 125.00	0.000 125.00
68	0.000 159.57	0.000 159.42	0.000 138.66	0.000 121.06	0.601 124.20	0.000 124.20
69	0.000 159.28	0.000 159.13	0.000 137.85	0.000 120.25	0.491 123.40	0.000 123.40
70	0.000 158.99	0.000 158.84	0.000 137.04	0.000 119.44	0.381 122.60	0.000 122.60
71	0.000 158.70	0.000 158.55	0.000 136.23	0.000 118.63	0.271 121.80	0.000 121.80
72	0.000 158.41	0.000 158.26	0.000 135.42	0.000 117.82	0.161 121.00	0.000 121.00
73	0.000 158.12	0.000 157.97	0.000 134.61	0.000 117.01	0.051 120.20	0.000 120.20
74	0.000 157.83	0.000 157.68	0.000 133.80	0.000 116.20	0.000 119.40	0.000 119.40
75	0.000 157.54	0.000 157.39	0.000 133.00	0.000 115.39	0.000 118.60	0.000 118.60
76	0.000 157.25	0.000 157.10	0.000 132.19	0.000 114.58	0.000 117.80	0.000 117.80
77	0.000 156.96	0.000 156.81	0.000 131.38	0.000 113.77	0.000 117.00	0.000 117.00
78	0.000 156.67	0.000 156.52	0.000 130.57	0.000 112.96	0.000 116.20	0.000 116.20
79	0.000 156.38	0.000 156.23	0.000 129.76	0.000 112.15	0.000 115.40	0.000 115.40
80	0.000 156.09	0.000 155.94	0.000 128.95	0.000 111.34	0.000 114.60	0.000 114.60
81	0.000 155.80	0.000 155.65	0.000 128.14	0.000 110.53	0.000 113.80	0.000 113.80
82	0.000 155.51	0.000 155.36	0.000 127.33	0.000 109.72	0.000 113.00	0.000 113.00
83	0.000 155.22	0.000 155.07	0.000 126.52	0.000 108.91	0.000 112.20	0.000 112.20
84	0.000 154.93	0.000 154.78	0.000 125.71	0.000 108.10	0.000 111.40	0.000 111.40
85	0.000 154.64	0.000 154.49	0.000 124.90	0.000 107.29	0.000 110.60	0.000 110.60
86	0.000 154.35	0.000 154.20	0.000 124.09	0.000 106.48	0.000 109.80	0.000 109.80
87	0.000 154.06	0.000 153.91	0.000 123.28	0.000 105.67	0.000 109.00	0.000 109.00
88	0.000 153.77	0.000 153.62	0.000 122.47	0.000 104.86	0.000 108.20	0.000 108.20
89	0.000 153.48	0.000 153.33	0.000 121.66	0.000 104.05	0.000 107.40	0.000 107.40
90	0.000 153.19	0.000 153.04	0.000 120.85	0.000 103.24	0.000 106.60	0.000 106.60
91	0.000 152.90	0.000 152.75	0.000 120.04	0.000 102.43	0.000 105.80	0.000 105.80
92	0.000 152.61	0.000 152.46	0.000 119.23	0.000 101.62	0.000 105.00	0.000 105.00
93	0.000 152.32	0.000 152.17	0.000 118.42	0.000 100.81	0.000 104.20	0.000 104.20
94	0.000 152.03	0.000 151.88	0.000 117.61	0.000 100.00	0.000 103.40	0.000 103.40
95	0.000 151.74	0.000 151.59	0.000 116.80	0.000 99.19	0.000 102.60	0.000 102.60
96	0.000 151.45	0.000 151.30	0.000 116.00	0.000 98.38	0.000 101.80	0.000 101.80
97	0.000 151.16	0.000 151.01	0.000 115.19	0.000 97.57	0.000 101.00	0.000 101.00
98	0.000 150.87	0.000 150.72	0.000 114.38	0.000 96.76	0.000 100.20	0.000 100.20
99	0.000 150.58	0.000 150.43	0.000 113.57	0.000 95.95	0.000 99.40	0.000 99.40
100	0.000 150.29	0.000 150.14	0.000 112.76	0.000 95.14	0.000 98.60	0.000 98.60

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 CP-MAG PHI	W4 CP-MAG PHI	W5 CP-MAG PHI	W6 CP-MAG PHI	W7 CP-MAG PHI	W8 CP-MAG PHI	W9 CP-MAG PHI
1	19.629 179.00	15.498 179.08	17.922 192.92	17.737 175.29	17.939 177.52	17.788 177.99	17.688 177.00
2	19.529 178.71	15.398 178.53	17.822 192.11	17.637 174.52	17.839 177.00	17.688 177.00	17.688 177.00
3	19.429 178.4	15.298 178.25	17.722 191.30	17.537 173.73	17.739 176.27	17.588 176.27	17.488 175.27
4	19.329 178.1	15.198 177.97	17.622 190.49	17.437 172.92	17.639 175.52	17.488 175.52	17.388 174.52
5	19.229 177.8	15.098 177.69	17.522 189.68	17.337 172.11	17.539 174.73	17.388 174.73	17.288 173.73
6	19.129 177.5	14.998 177.41	17.422 188.87	17.237 171.30	17.439 173.92	17.288 173.92	17.188 172.92
7	19.029 177.2	14.898 177.13	17.322 188.06	17.137 170.49	17.339 173.11	17.188 173.11	17.088 172.11
8	18.929 176.9	14.798 176.85	17.222 187.25	17.037 169.68	17.239 172.30	17.088 172.30	16.988 171.30
9	18.829 176.6	14.698 176.57	17.122 186.44	16.937 168.87	17.139 171.49	16.988 171.49	16.888 170.49
10	18.729 176.3	14.598 176.29	17.022 185.63	16.837 168.06	17.039 170.68	16.888 170.68	16.788 169.68

TABLE 11

MODE 2 DATA FOR  $\alpha_{MCL} = 6 \text{ deg}$ ,  $\bar{\alpha} = 2 \text{ deg}$ 

<u><math>\sigma</math> (deg)</u>	<u>k</u>	<u>page</u>
-135	.0713	700
"	.1210	704
"	.1498	708
-90	.0712	712
"	.1214	716
"	.1498	720
-45	.0716	724
"	.1221	728
"	.1507	732
0	.0720	736
"	.1213	740
"	.1501	744
45	.0710	748
"	.1211	752
"	.1499	756
90	.0719	760
"	.1221	764
"	.1510	768
135	.0712	772
"	.1209	776
"	.1492	780
180	.0714	784
"	.1213	788
"	.1497	792

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MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 169 ALPHA-MCL = 6.0 POP RUN PT 32.05  
 RUN 33 ALPHA-BAR = 2.0 Q-COMP = .32671  
 POINT 2 SIGMA = -135. V-REF = 200.44  
 COMPUTED FREQUENCY = 9.10, K = .0713

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE:005  
 SUCTION

N	CPREAL	CPIMAG
1	1.110	10.951
2	-4.575	-6.083
3	1.694	.210
4	1.062	.819
5	-.679	-.069
6	.398	-.037
7	.445	-.275
8	-.212	.519
9	.033	.182
10	.022	-.419

XE:012  
 SUCTION

N	CPREAL	CPIMAG
1	2.172	15.958
2	-3.802	-2.035
3	1.904	.554
4	1.933	.301
5	-.856	-.011
6	.728	.472
7	.109	.258
8	-.131	.342
9	-.131	.342
10	-.131	.342

XE:030  
 SUCTION

N	CPREAL	CPIMAG
1	2.940	14.303
2	-1.299	-.160
3	-2.417	.608
4	-.225	.088
5	.966	-.302
6	.306	.377
7	-.024	.220
8	-.011	.227
9	-.011	.227
10	-.011	.227

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	25.672	4.718	1	24.797	13.378	1	-2.894	16.688
2	-1.435	2.588	2	-2.299	-3.022	2	-2.689	1.012
3	-.599	-.355	3	1.015	-.141	3	-.697	.159
4	-.355	.430	4	-.012	-.375	4	.377	.315
5	-.017	.271	5	.157	-.054	5	-.003	.115
6	.274	-.152	6	.072	-.017	6	.117	-.164
7	.027	-.164	7	-.070	-.205	7	-.050	-.061
8	.149	-.164	8	-.070	-.205	8	-.128	-.020
9	.149	-.164	9	-.070	-.205	9	-.128	-.020
10	.149	-.164	10	-.070	-.205	10	-.128	-.020

C - 4

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 169 ALPHA-MCL = 6.0 POP RUN PT 33.05  
 PUN 33 ALPHA-BAR = 2.0 Q-COMP = .32671  
 POINT 2 SIGMA = -135. V-REF = 200.44  
 COMPUTED FREQUENCY = 9.10, K = .0713

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9									
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	-6.298	-5.842	1	2.536	11.916	1	-6.786	.805	1	281	9.829	1	-5.294	.675
2	2	-2.852	-1.942	2	2.664	13.569	2	.302	.104	2	.193	-.033	2	-.152	.036
3	3	-1.021	-1.785	3	1.588	1.723	3	-.228	-.065	3	-.317	-.006	3	-.199	.021
4	4	-1.335	-.432	4	1.317	.308	4	.009	.177	4	.070	.019	4	-.009	.025
5	5	-.347	-.397	5	-.844	.308	5	-.062	.103	5	-.062	.068	5	.021	-.005
6	6	.032	-.177	6	-.899	.657	6	-.056	.152	6	-.018	-.027	6	-.009	.000
7	7	.427	-.178	7	-.724	.348	7	-.031	.059	7	-.086	.040	7	-.005	.010
8	8	.254	-.198	8	.118	-.075	8	-.027	.020	8	-.011	-.026	8	-.027	-.019
9	9	.013	-.210	9	.019	-.160	9	-.011	.020	9	-.015	-.006	9	-.006	-.010
10	10	.031	-.046	10	-.102	-.128	10	-.001	.020	10	-.015	-.006	10	-.006	-.010
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	6.943	4.421	1	4.428	7.081	1	10.275	-2.414	1	-14.341	-5.105	1	6.065	12.350
2	2	1.234	-.541	2	-1.314	.899	2	-.702	-1.498	2	-.346	-.193	2	-1.811	-.666
3	3	.062	.081	3	.058	.114	3	.068	-.014	3	.090	-.143	3	-.640	.108
4	4	.068	.042	4	.064	-.015	4	.082	-.000	4	.117	-.118	4	-.211	.197
5	5	.054	.100	5	.001	.132	5	-.013	.117	5	.089	-.068	5	-.044	.022
6	6	.003	-.047	6	-.003	.003	6	.050	-.017	6	.004	-.078	6	-.004	.028
7	7	.111	-.058	7	-.003	.033	7	.013	-.044	7	-.071	-.002	7	-.023	.045
8	8	.003	.063	8	-.008	.005	8	.013	-.079	8	-.015	-.023	8	-.036	.075
9	9	.025	.026	9	-.008	.005	9	.001	-.001	9	-.052	-.036	9	-.041	.003
10	10			10			10			10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. SAP FRACTION	W3 •062	W4 •125	W5 •250	W7 •750	W8 •875	W9 •938		
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-16.811	3.028	1	-5.186	-.273	1	-2.209	-.543
2	-1.055	-2.567	2	-.269	-.217	2	-.203	-.093
3	-.361	-.530	3	-.385	.440	3	-.413	.118
4	-.301	.231	4	-.036	.134	4	-.118	.023
5	-.102	.120	5	-.111	.038	5	-.016	.119
6	-.018	-.088	6	.018	.010	6	-.017	-.005
7	-.032	-.015	7	-.034	-.014	7	-.007	-.047
8	-.006	-.040	8	.024	-.002	8	-.003	-.021
9			9	.019	-.002	9	.000	-.001
10			10			10		

MODE 2 -- LEADING EDGE PLANE DATA. WALL STATIONS

FILE 159 ALPHA-MCL = 6.0 POP RUN-PT 33.05  
 RUN 31 ALPHA-BAR = 2.0 O-COMP = 32671  
 POINT 2 SIGMA = -135. V-REF = 200.44  
 COMPUTED FREQUENCY = 9.10. K = .0713

FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

N	CP-MAG	PHI
1	11.007	174.21
2	7.611	53.05
3	1.728	12.41
4	1.229	30.25
5	.682	275.84
6	.400	174.68
7	.324	238.27
8	.361	112.23
9	.185	169.65
10	.019	192.95

XZ=012  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	18.488	171.44	1	20.816	171.90	1	26.102	169.59	1	19.401	165.66
2	13.619	156.07	2	22.312	141.30	2	1.531	38.01	2	3.252	123.55
3	1.990	128.09	3	4.339	132.57	3	.300	103.00	3	.608	313.84
4	1.028	106.21	4	3.371	209.81	4	.651	129.53	4	.520	197.81
5	.545	106.21	5	1.279	209.81	5	.556	93.62	5	.116	226.93
6	.228	179.12	6	1.628	160.13	6	.372	310.97	6	.201	305.06
7	.302	156.55	7	1.469	154.41	7	.313	312.20	7	.079	179.03
8	.225	156.55	8	.959	239.79	8	.039	312.20	8	.129	278.83
9	.160	153.72	9	.178	259.08	9	.221	312.20	9		
10	.220	153.72	10	.625	259.08	10			10		

XZ=030  
 SUCTION

N	CP-MAG	PHI
1	.602	168.38
2	.301	242.03
3	.109	97.03
4	.202	194.13
5	.313	266.03
6	.822	194.55
7	.486	332.86
8	.202	309.10
9	.227	186.99
10		267.16

# MODE 2 -- LEADING EDGE PLANE DATA, WGLL STATIONS

FILE 169 ALPHA-MCL = 6.0 POP RUN-PT 33.05  
 RUN 33 ALPHA-BAR = 2.0 O-COMP = 32671  
 POINT 2 SIGMA = -135. Y-REF = 200.44  
 COMPUTED FREQUENCY = 9.10, K = .0713  
 UNBIASED PHASE ANGLE

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	10.148 170.14	12.183 167.98	11.147 172.37	6.834 173.24	7.467 167.75	5.719 170.17
2	1.450 235.43	4.453 231.28	3.021 242.35	3.19 242.35	1.193 259.79	1.156 259.79
3	2.785 17.94	2.343 317.34	3.452 316.96	.286 316.96	.031 223.63	.197 259.70
4	1.528 86.15	.536 53.94	1.597 110.66	.163 86.98	.073 230.00	.022 212.92
5	.509 12.36	.899 323.85	.210 52.00	.196 143.62	.092 222.08	.010 195.16
6	.509 12.36	1.176 323.85	.400 52.00	.125 143.62	.092 222.08	.010 195.16
7	.210 225.67	1.440 327.62	.400 52.00	.125 143.62	.092 222.08	.010 195.16
8	.210 225.67	1.163 51.35	.286 295.86	.023 119.10	.030 151.16	.020 244.33
9	.056 326.52					
10						
X=012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	8.337 347.49	8.352 347.02	10.555 346.78	15.233 330.90	13.759 341.50	15.233 330.90
2	1.347 246.31	1.368 242.72	1.654 242.72	1.348 242.72	1.654 242.72	1.348 242.72
3	.102 166.72	.128 166.72	.082 166.72	.070 166.72	.082 166.72	.070 166.72
4	.081 151.77	.132 151.77	.082 151.77	.082 151.77	.082 151.77	.082 151.77
5	.107 132.45	.062 132.45	.118 132.45	.118 132.45	.118 132.45	.118 132.45
6	.125 42.57	.030 42.57	.066 42.57	.066 42.57	.066 42.57	.066 42.57
7	.036 44.48	.010 44.48	.001 44.48	.001 44.48	.001 44.48	.001 44.48
8						
9						
10						

\*\*\* HALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 N CP-MAG PHI	W4 N CP-MAG PHI	W5 N CP-MAG PHI	W7 N CP-MAG PHI	W8 N CP-MAG PHI	W9 N CP-MAG PHI
1	17.081 169.79	13.013 173.02	5.203 173.02	2.231 184.17	2.358 193.35	2.272 193.35
2	.420 210.63	1.223 175.84	.409 175.84	.447 201.26	.443 201.26	.426 201.26
3	.380 161.01	1.315 174.56	.220 174.56	.183 167.96	.170 167.96	.179 167.96
4	.122 198.31	.162 198.31	.114 198.31	.047 169.65	.046 169.65	.041 169.65
5	.135 139.85	.107 139.85	.036 139.85	.012 122.74	.018 122.74	.009 122.74
6	.039 116.42	.060 116.42	.023 116.42	.055 99.74	.049 99.74	.048 99.74
7	.041 262.11	.110 262.11	.023 262.11	.022 262.11	.028 262.11	.021 262.11
8						
9						
10						

MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 171 ALPHA-MCL = 6.0 POP RUN.PT 33.07  
 RUN 33 ALPHA-BAR = 2.0 O-COMP = .32824  
 POINT 4 SIGMA = -135. V-REF = 200.91  
 FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

COMPUTED FREQUENCY = 15.47, K = .1210

BLADE NO. 3

XZ-005  
 SUCTION

N	CPREAL	CPIMAG
1	1.111	10.728
2	-5.289	-5.204
3	-1.189	.163
4	1.218	.247
5	-.608	-.237
6	.175	-.230
7	.168	.454
8	-.079	.054
9	-.024	.022
10	.022	-.215

XZ-012  
 SUCTION

N	CPREAL	CPIMAG
1	1.984	16.109
2	-4.307	-4.619
3	-1.032	-1.640
4	1.261	-.523
5	1.490	-.243
6	-.995	.322
7	-.298	.330
8	.207	-.354
9	.086	.144
10	-.008	.138

XZ-030  
 SUCTION

N	CPREAL	CPIMAG
1	2.771	14.126
2	-.868	-2.724
3	-1.210	-.256
4	-.210	-.410
5	.940	.113
6	.328	-.134
7	.401	-.378
8	.043	-.111
9	-.039	.123
10	-.016	.134

9

7

6

5

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	24.982	13.119	1	-9.941	17.289	1	-9.941	17.289
2	3.613	-2.742	2	-2.691	1.817	2	-2.691	1.817
3	1.028	.116	3	-.141	.004	3	-.141	.004
4	1.122	.160	4	.524	.110	4	.524	.110
5	-.291	-.328	5	.286	.236	5	.286	.236
6	-.054	.156	6	-.010	-.091	6	-.010	-.091
7	-.304	.036	7	-.039	-.179	7	-.039	-.179
8	-.074	-.007	8	.074	-.026	8	.074	-.026
9	-.023	.128	9	-.042	-.029	9	-.042	-.029
10	.016	-.057	10	-.098	.067	10	-.098	.067

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FILE 171 ALPHA-MCL = 6.0 POP RUN.PI 33.07
RUN 33 ALPHA-BR = 2.0 Q-COMP 33.824
POINT 4 SIGMA = 135. V-REF = 200.61
COMPUTED FREQUENCY = 15.47, X = .1210

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 2

SUC-062

[illegible]

\*\*\* WALL PRESSURE, PER RADIAN \*\*\*

WALL NO. 1  
CAP FRACTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	17.4774	7023	1	13.3986	2.1439	1	5.6817	5231	1	2.7243	1970	1	2.5859	2693	1	2.5859	2693
2	17.4774	7023	2	13.3986	2.1439	2	5.6817	5231	2	2.7243	1970	2	2.5859	2693	2	2.5859	2693
3	17.4774	7023	3	13.3986	2.1439	3	5.6817	5231	3	2.7243	1970	3	2.5859	2693	3	2.5859	2693
4	17.4774	7023	4	13.3986	2.1439	4	5.6817	5231	4	2.7243	1970	4	2.5859	2693	4	2.5859	2693
5	17.4774	7023	5	13.3986	2.1439	5	5.6817	5231	5	2.7243	1970	5	2.5859	2693	5	2.5859	2693
6	17.4774	7023	6	13.3986	2.1439	6	5.6817	5231	6	2.7243	1970	6	2.5859	2693	6	2.5859	2693
7	17.4774	7023	7	13.3986	2.1439	7	5.6817	5231	7	2.7243	1970	7	2.5859	2693	7	2.5859	2693
8	17.4774	7023	8	13.3986	2.1439	8	5.6817	5231	8	2.7243	1970	8	2.5859	2693	8	2.5859	2693
9	17.4774	7023	9	13.3986	2.1439	9	5.6817	5231	9	2.7243	1970	9	2.5859	2693	9	2.5859	2693
10	17.4774	7023	10	13.3986	2.1439	10	5.6817	5231	10	2.7243	1970	10	2.5859	2693	10	2.5859	2693

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 171 ALPHA-MCL = 6.0 POP RUN.PI 33.07  
 RUN 33 ALPHA-BAR = 2.0 O-COMP = 32824  
 POINT 4 SIGMA = -135. V-REF = 200.91  
 FOURIER COEFFICIENTS, AMPLITUDE = 15.47, K = .1210  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 8 9

X=005  
 SUCION

N	CP-MAG	PHI
1	10.786	174.09
2	7.420	49.53
3	1.250	49.26
4	1.243	11.41
5	.656	247.91
6	.295	126.51
7	.261	220.01
8	.461	99.86
9	.059	204.73
10	.216	95.83

X=012  
 SUCION

N	CP-MAG	PHI
1	18.235	172.95
2	8.076	151.95
3	1.026	136.31
4	1.026	109.07
5	.258	108.18
6	.251	218.12
7	.167	219.13
8	.177	218.23
9	.177	218.23
10	.177	218.23

X=030  
 SUCION

N	CP-MAG	PHI
1	14.395	168.90
2	2.459	152.32
3	1.217	150.52
4	1.247	157.58
5	.350	157.64
6	.351	157.64
7	.119	197.66
8	.135	197.66
9	.135	197.66
10	.135	197.66

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	19.953	170.00	1	26.386	167.67	1	27.776	163.19	1	19.940	160.00
2	2.839	19.59	2	1.844	36.49	2	.535	232.80	2	.240	133.50
3	4.330	116.57	3	.228	133.24	3	.117	121.07	3	.135	133.50
4	2.889	193.57	4	.626	217.64	4	.133	118.10	4	.571	129.22
5	1.018	141.48	5	.216	300.56	5	.165	266.90	5	.041	173.55
6	1.110	228.50	6	.282	122.14	6	.307	231.67	6	.183	120.32
7	.375	220.85	7	.020	167.98	7	.075	185.33	7	.078	259.24
8	.303	291.81	8	.020	191.70	8	.130	235.07	8	.051	235.58
9	.303	291.81	9	.020	191.70	9	.130	235.07	9	.051	235.58
10	.303	291.81	10	.020	191.70	10	.130	235.07	10	.051	235.58

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 171 ALPHA-MCL = 6.0 POP RUN-PT 33.07  
 RUN 33 ALPHA-BAR = 32824  
 POINT 4 SIGMA = -135 Q-COMP = 32824  
 COMPUTED FREQUENCY = 15.47, W-REF = 200.91  
 UNBIASED PHASE ANGLE W = .1210

FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SUCTION						
	N	N	N	N	N	N
	CP-MAG	CP-MAG	CP-MAG	CP-MAG	CP-MAG	CP-MAG
	PHI	PHI	PHI	PHI	PHI	PHI
1	11.254	169.67	11.620	168.73	17.415	170.43
2	3.448	338.38	3.775	335.87	.078	126.07
3	2.412	304.47	2.560	301.47	.297	280.07
4	.818	18.57	1.131	15.00	.384	66.06
5	.122	327.97	1.131	15.00	.384	66.06
6	.516	351.51	.332	308.55	.172	162.76
7	.328	370.51	.418	25.22	.157	351.65
8	.146	123.93	.283	105.54	.024	301.65
9	.062	299.30	.076	65.73	.047	91.12
10	.056	41.34	.034	38.77	.027	211.34
	N	N	N	N	N	N
	CP-MAG	CP-MAG	CP-MAG	CP-MAG	CP-MAG	CP-MAG
	PHI	PHI	PHI	PHI	PHI	PHI
1	8.847	350.11	8.696	345.44	10.578	346.12
2	1.348	232.71	1.050	226.97	1.852	226.21
3	.266	208.02	.126	175.24	.117	290.83
4	.162	291.75	.092	348.89	.016	303.03
5	.090	285.32	.037	339.54	.099	175.25
6	.051	26.98	.018	338.62	.037	213.61
7	.020	283.98	.036	149.12	.016	60.83
8	.030	276.69	.024	203.64	.032	302.27
9	.021	238.90	.025	203.64	.033	302.27
10						
X=.012 PRESSURE						
	N	N	N	N	N	N
	CP-MAG	CP-MAG	CP-MAG	CP-MAG	CP-MAG	CP-MAG
	PHI	PHI	PHI	PHI	PHI	PHI
1	13.964	339.33	14.050	329.28	14.050	329.28
2	1.170	116.45	1.366	117.41	1.366	117.41
3	.677	262.60	.087	248.86	.087	248.86
4	.377	148.81	.217	39.20	.217	39.20
5	.130	182.78	.137	57.08	.137	57.08
6	.049	116.68	.054	53.09	.054	53.09
7	.037	171.68	.042	19.19	.042	19.19
8	.020	357.04	.070		.070	
9						
10						

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3	W4	W5	W7	W9	
	N	N	N	N	N	
	CP-MAG	CP-MAG	CP-MAG	CP-MAG	CP-MAG	
	PHI	PHI	PHI	PHI	PHI	
1	17.827	167.92	5.602	180.59	2.663	185.65
2	.151	243.33	.105	177.41	.044	168.47
3	.280	151.33	.105	177.41	.104	168.47
4	.283	123.39	.184	337.85	.051	185.65
5	.142	158.45	.107	228.95	.026	168.47
6	.087	168.83	.054	178.12	.014	168.47
7	.047	252.90	.049	150.84	.014	168.47
8	.076	102.11	.049	255.54	.023	168.47
9				103.89		
10						



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 173 ALPHA-MCL = 6.0 PDE RUN-PT 13.09  
 POINT 33 ALPHA-BAR = 13.0 C-COMPT 13.09  
 6 SIGMA = 13.0 V-REF = 23.22  
 6 COMPUTED FREQUENCY = 19.09, N = .1098

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XZ=705  
 SUCION

N	CPREAL	CPIMAG
1	1.131	10.870
2	-5.183	-5.147
3	-1.181	.138
4	1.002	.219
5	-1.308	.152
6	.088	-.230
7	.152	.239
8	-.028	.062
9	.037	-.149
10		

XZ=710  
 SUCION

N	CPREAL	CPIMAG
1	2.044	16.392
2	-4.063	-4.352
3	-1.349	-1.437
4	1.358	.376
5	-1.482	.285
6	.192	-.222
7	.064	.039
8	-.053	.141
9		
10		

XZ=715  
 SUCION

N	CPREAL	CPIMAG
1	2.735	14.178
2	-4.655	-4.722
3	-1.217	-.171
4	1.553	.460
5	-1.281	.101
6	.219	-.111
7	.271	.358
8	-.099	.115
9	-.031	.069
10		

9

7

6

5

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	12.944	12.944	1	12.944	12.944	1	12.944	12.944
2	-2.767	-2.767	2	-2.767	-2.767	2	-2.767	-2.767
3	.157	.157	3	.157	.157	3	.157	.157
4	.282	.282	4	.282	.282	4	.282	.282
5	.109	.109	5	.109	.109	5	.109	.109
6	.021	.021	6	.021	.021	6	.021	.021
7	.015	.015	7	.015	.015	7	.015	.015
8			8			8		
9			9			9		
10			10			10		

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 173 ALPHA-MCL = 6.3 POP-RUMPTI 33.02  
 POINT 33 ALPHA-BR = 135.0 Q-COMP = 33.02  
 SIGMA = 135.0 V-REF = 33.02  
 COMPUTED K = 1992  
 FREQUENCY = 19.04

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3										5										6										7										9									
	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG											
X=762 SUCTION	1	-13.276	-7.369	1	2.622	12.304	1	6.374	-10.182	1	2.374	-10.182	1	2.374	-10.182	1	2.374	-10.182	1	2.374	-10.182	1	2.374	-10.182	1	2.374	-10.182	1	2.374	-10.182	1	2.374	-10.182	1	2.374	-10.182	1	2.374	-10.182	1	2.374	-10.182								
	2	3.391	-2.001	2	1.855	1.302	2	-2.526	2.225	2	-2.526	2.225	2	-2.526	2.225	2	-2.526	2.225	2	-2.526	2.225	2	-2.526	2.225	2	-2.526	2.225	2	-2.526	2.225	2	-2.526	2.225	2	-2.526	2.225	2	-2.526	2.225	2	-2.526	2.225								
	3	-0.391	2.244	3	1.092	4.093	3	-1.225	-0.466	3	-1.225	-0.466	3	-1.225	-0.466	3	-1.225	-0.466	3	-1.225	-0.466	3	-1.225	-0.466	3	-1.225	-0.466	3	-1.225	-0.466	3	-1.225	-0.466	3	-1.225	-0.466	3	-1.225	-0.466	3	-1.225	-0.466								
	4	-0.212	-2.101	4	-0.670	0.373	4	0.466	1.005	4	0.466	1.005	4	0.466	1.005	4	0.466	1.005	4	0.466	1.005	4	0.466	1.005	4	0.466	1.005	4	0.466	1.005	4	0.466	1.005	4	0.466	1.005	4	0.466	1.005	4	0.466	1.005								
	5	-0.096	-0.441	5	-0.074	0.099	5	-0.466	-0.135	5	-0.466	-0.135	5	-0.466	-0.135	5	-0.466	-0.135	5	-0.466	-0.135	5	-0.466	-0.135	5	-0.466	-0.135	5	-0.466	-0.135	5	-0.466	-0.135	5	-0.466	-0.135	5	-0.466	-0.135	5	-0.466	-0.135								
	6	-0.220	-0.153	6	-0.074	0.099	6	-0.466	-0.135	6	-0.466	-0.135	6	-0.466	-0.135	6	-0.466	-0.135	6	-0.466	-0.135	6	-0.466	-0.135	6	-0.466	-0.135	6	-0.466	-0.135	6	-0.466	-0.135	6	-0.466	-0.135	6	-0.466	-0.135	6	-0.466	-0.135								
	7	-0.052	-0.031	7	-0.074	0.099	7	-0.466	-0.135	7	-0.466	-0.135	7	-0.466	-0.135	7	-0.466	-0.135	7	-0.466	-0.135	7	-0.466	-0.135	7	-0.466	-0.135	7	-0.466	-0.135	7	-0.466	-0.135	7	-0.466	-0.135	7	-0.466	-0.135	7	-0.466	-0.135								
	8	-0.139	-0.046	8	-0.074	0.099	8	-0.466	-0.135	8	-0.466	-0.135	8	-0.466	-0.135	8	-0.466	-0.135	8	-0.466	-0.135	8	-0.466	-0.135	8	-0.466	-0.135	8	-0.466	-0.135	8	-0.466	-0.135	8	-0.466	-0.135	8	-0.466	-0.135	8	-0.466	-0.135								
	9	-0.145	-0.016	9	-0.074	0.099	9	-0.466	-0.135	9	-0.466	-0.135	9	-0.466	-0.135	9	-0.466	-0.135	9	-0.466	-0.135	9	-0.466	-0.135	9	-0.466	-0.135	9	-0.466	-0.135	9	-0.466	-0.135	9	-0.466	-0.135	9	-0.466	-0.135	9	-0.466	-0.135								
	10			10			10			10			10			10			10			10			10			10			10			10			10			10										
X=812 PRESSURE	1	7.959	5.003	1	7.959	5.003	1	-4.254	7.532	1	-4.254	7.532	1	-4.254	7.532	1	-4.254	7.532	1	-4.254	7.532	1	-4.254	7.532	1	-4.254	7.532	1	-4.254	7.532	1	-4.254	7.532	1	-4.254	7.532	1	-4.254	7.532	1	-4.254	7.532								
	2	1.171	-1.310	2	1.171	-1.310	2	-1.023	1.035	2	-1.023	1.035	2	-1.023	1.035	2	-1.023	1.035	2	-1.023	1.035	2	-1.023	1.035	2	-1.023	1.035	2	-1.023	1.035	2	-1.023	1.035	2	-1.023	1.035	2	-1.023	1.035	2	-1.023	1.035								
	3	-0.122	0.246	3	-0.122	0.246	3	-0.177	-0.326	3	-0.177	-0.326	3	-0.177	-0.326	3	-0.177	-0.326	3	-0.177	-0.326	3	-0.177	-0.326	3	-0.177	-0.326	3	-0.177	-0.326	3	-0.177	-0.326	3	-0.177	-0.326	3	-0.177	-0.326	3	-0.177	-0.326								
	4	-0.023	-0.066	4	-0.023	-0.066	4	-0.066	-0.087	4	-0.066	-0.087	4	-0.066	-0.087	4	-0.066	-0.087	4	-0.066	-0.087	4	-0.066	-0.087	4	-0.066	-0.087	4	-0.066	-0.087	4	-0.066	-0.087	4	-0.066	-0.087	4	-0.066	-0.087	4	-0.066	-0.087								
	5	-0.023	-0.066	5	-0.023	-0.066	5	-0.066	-0.087	5	-0.066	-0.087	5	-0.066	-0.087	5	-0.066	-0.087	5	-0.066	-0.087	5	-0.066	-0.087	5	-0.066	-0.087	5	-0.066	-0.087	5	-0.066	-0.087	5	-0.066	-0.087	5	-0.066	-0.087	5	-0.066	-0.087								
	6	-0.023	-0.066	6	-0.023	-0.066	6	-0.066	-0.087	6	-0.066	-0.087	6	-0.066	-0.087	6	-0.066	-0.087	6	-0.066	-0.087	6	-0.066	-0.087	6	-0.066	-0.087	6	-0.066	-0.087	6	-0.066	-0.087	6	-0.066	-0.087	6	-0.066	-0.087	6	-0.066	-0.087								
	7	-0.023	-0.066	7	-0.023	-0.066	7	-0.066	-0.087	7	-0.066	-0.087	7	-0.066	-0.087	7	-0.066	-0.087	7	-0.066	-0.087	7	-0.066	-0.087	7	-0.066	-0.087	7	-0.066	-0.087	7	-0.066	-0.087	7	-0.066	-0.087	7	-0.066	-0.087	7	-0.066	-0.087								
	8	-0.023	-0.066	8	-0.023	-0.066	8	-0.066	-0.087	8	-0.066	-0.087	8	-0.066	-0.087	8	-0.066	-0.087	8	-0.066	-0.087	8	-0.066	-0.087	8	-0.066	-0.087	8	-0.066	-0.087	8	-0.066	-0.087	8	-0.066	-0.087	8	-0.066	-0.087	8	-0.066	-0.087								
	9	-0.023	-0.066	9	-0.023	-0.066	9	-0.066	-0.087	9	-0.066	-0.087	9	-0.066	-0.087	9	-0.066	-0.087	9	-0.066	-0.087	9	-0.066	-0.087	9	-0.066	-0.087	9	-0.066	-0.087	9	-0.066	-0.087	9	-0.066	-0.087	9	-0.066	-0.087	9	-0.066	-0.087								
	10			10			10			10			10			10			10			10			10			10			10			10			10			10										
WALL NO. AP FRACTION	1	-17.451	-2.816	1	-17.451	-2.816	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304								
	2	-0.063	-0.125	2	-0.063	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125								
	3	-0.059	-0.167	3	-0.059	-0.167	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125								
	4	-0.017	-0.078	4	-0.017	-0.078	4	-0.125	-0.125	4	-0.125	-0.125	4	-0.125	-0.125	4	-0.125	-0.125	4	-0.125	-0.125	4	-0.125	-0.125	4	-0.125	-0.125	4	-0.125	-0.125	4	-0.125	-0.125	4	-0.125	-0.125	4	-0.125	-0.125	4	-0.125	-0.125								
	5	-0.017	-0.078	5	-0.017	-0.078	5	-0.125	-0.125	5	-0.125	-0.125	5	-0.125	-0.125	5	-0.125	-0.125	5	-0.125	-0.125	5	-0.125	-0.125	5	-0.125	-0.125	5	-0.125	-0.125	5	-0.125	-0.125	5	-0.125	-0.125	5	-0.125	-0.125	5	-0.125	-0.125								
	6	-0.017	-0.078	6	-0.017	-0.078	6	-0.125	-0.125	6	-0.125	-0.125	6	-0.125	-0.125	6	-0.125	-0.125	6	-0.125	-0.125	6	-0.125	-0.125	6	-0.125	-0.125	6	-0.125	-0.125	6	-0.125	-0.125	6	-0.125	-0.125	6	-0.125	-0.125	6	-0.125	-0.125								
	7	-0.017	-0.078	7	-0.017	-0.078	7	-0.125	-0.125	7	-0.125	-0.125	7	-0.125	-0.125	7	-0.125	-0.125	7	-0.125	-0.125	7	-0.125	-0.125	7	-0.125	-0.125	7	-0.125	-0.125	7	-0.125	-0.125	7	-0.125	-0.125	7	-0.125	-0.125	7	-0.125	-0.125								
	8	-0.017	-0.078	8	-0.017	-0.078	8	-0.125	-0.125	8	-0.125	-0.125	8	-0.125	-0.125	8	-0.125	-0.125	8	-0.125	-0.125	8	-0.125	-0.125	8	-0.125	-0.125	8	-0.125	-0.125	8	-0.125	-0.125	8	-0.125	-0.125	8	-0.125	-0.125	8	-0.125	-0.125								
	9	-0.017	-0.078	9	-0.017	-0.078	9	-0.125	-0.125	9	-0.125	-0.125	9	-0.125	-0.125	9	-0.125	-0.125	9	-0.125	-0.125	9	-0.125	-0.125	9	-0.125	-0.125	9	-0.125	-0.125	9	-0.125	-0.125	9	-0.125	-0.125	9	-0.125	-0.125	9	-0.125	-0.125								
	10			10			10			10			10			10			10			10			10			10			10			10			10			10										

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. AP FRACTION	W3 .062										W4 .125										W5 .250										W6 .750										W9 .938									
	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG	N	C PREAL	CPI MAG											
1	-17.451	-2.816	1	-17.451	-2.816	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304	1	-5.523	-1.304									
2	-0.063	-0.125	2	-0.063	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125	2	-0.125	-0.125									
3	-0.059	-0.167	3	-0.059	-0.167	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.125	3	-0.125	-0.															

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 173 ALPHA-MCL = 5.0 POP PUMPT 11.89  
 GUN 13 ALPHA-BAR = 2.0 10-COMP = 128.82  
 POINT 0 SIGMA = -135. V-REF = 20.22  
 0 COMPUTED FREQUENCY = 19.69. K = .1498

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=205  
 SUCTION

N	CP-MAG	PHI
1	10.928	174.06
2	7.448	173.72
3	1.221	52.83
4	1.454	1.16
5	.179	241.14
6	.245	118.04
7	.268	219.40
8	.152	210.35
9		101.12
10		101.12

X=212  
 SUCTION

N	CP-MAG	PHI
1	16.468	171.74
2	8.122	143.11
3	4.298	128.97
4	1.194	14.53
5	1.133	36.87
6	.257	118.34
7	.257	123.28
8	.128	123.28
9	.128	123.28
10	.128	123.28

X=227  
 SUCTION

N	CP-MAG	PHI
1	18.436	169.08
2	7.656	152.38
3	2.242	97.93
4	1.169	186.90
5	.787	167.62
6	.381	267.00
7	.515	226.18
8	.197	226.18
9	.075	226.18
10		226.18

N	CP-MAG	PHI	N	CP-MAG	PHI
1	28.179	162.34	1	20.079	163.04
2	1.645	233.25	2	3.005	170.82
3	1.516	196.10	3	.443	220.60
4	.116	266.08	4	.315	182.02
5	.116	199.23	5	.107	206.70
6	.023	211.23	6	.099	218.22
7	.015	110.54	7	.099	218.22
8	.015	110.54	8	.099	218.22
9	.015	110.54	9	.099	218.22
10	.015	110.54	10	.099	218.22

N	CP-MAG	PHI	N	CP-MAG	PHI
1	26.034	166.59	1	26.034	166.59
2	.779	121.28	2	.779	121.28
3	.519	233.17	3	.519	233.17
4	.132	273.47	4	.132	273.47
5	.132	273.47	5	.132	273.47
6	.132	273.47	6	.132	273.47
7	.132	273.47	7	.132	273.47
8	.132	273.47	8	.132	273.47
9	.132	273.47	9	.132	273.47
10	.132	273.47	10	.132	273.47

N	CP-MAG	PHI	N	CP-MAG	PHI
1	22.573	158.76	1	22.573	158.76
2	2.833	107.97	2	2.833	107.97
3	2.604	138.21	3	2.604	138.21
4	.773	128.84	4	.773	128.84
5	.847	121.84	5	.847	121.84
6	.183	176.79	6	.183	176.79
7	.183	176.79	7	.183	176.79
8	.183	176.79	8	.183	176.79
9	.183	176.79	9	.183	176.79
10	.183	176.79	10	.183	176.79

N	CP-MAG	PHI	N	CP-MAG	PHI
1	26.034	166.59	1	26.034	166.59
2	.779	121.28	2	.779	121.28
3	.519	233.17	3	.519	233.17
4	.132	273.47	4	.132	273.47
5	.132	273.47	5	.132	273.47
6	.132	273.47	6	.132	273.47
7	.132	273.47	7	.132	273.47
8	.132	273.47	8	.132	273.47
9	.132	273.47	9	.132	273.47
10	.132	273.47	10	.132	273.47

N	CP-MAG	PHI	N	CP-MAG	PHI
1	28.179	162.34	1	20.079	163.04
2	1.645	233.25	2	3.005	170.82
3	1.516	196.10	3	.443	220.60
4	.116	266.08	4	.315	182.02
5	.116	199.23	5	.107	206.70
6	.023	211.23	6	.099	218.22
7	.015	110.54	7	.099	218.22
8	.015	110.54	8	.099	218.22
9	.015	110.54	9	.099	218.22
10	.015	110.54	10	.099	218.22

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 173 ALPHA-MAG = 6.0 PDP RUNPFI 33.09  
 RUN 6 O-COMP = 32.602  
 POINT 6 SIGMA = -135. V-REF = 250.22  
 COMPUTED FREQUENCY = 19.09, K = .1498  
 UNBIASED PHASE ANGLE

FOUPIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9									
X=1762 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	12	580	170.83	1	12	313	167.05	1	7	575	170.53	1	6	021	169.33
2	14	581	167.97	2	13	366	232.19	2	8	576	167.46	2	7	021	169.33
3	16	582	165.11	3	15	406	299.23	3	9	577	165.03	3	8	021	169.33
4	18	583	162.27	4	17	446	366.27	4	10	578	162.95	4	9	021	169.33
5	20	584	159.43	5	19	486	433.31	5	11	579	159.83	5	10	021	169.33
6	22	585	156.59	6	21	526	500.35	6	12	580	156.71	6	11	021	169.33
7	24	586	153.75	7	23	566	567.39	7	13	581	153.59	7	12	021	169.33
8	26	587	150.91	8	25	606	634.43	8	14	582	150.47	8	13	021	169.33
9	28	588	148.07	9	27	646	701.47	9	15	583	148.31	9	14	021	169.33
10	30	589	145.23	10	29	686	768.51	10	16	584	145.15	10	15	021	169.33
X=012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	9	01	347.15	1	8	650	349.46	1	11	019	349.05	1	14	523	328.53
2	11	02	321.22	2	10	651	323.51	2	12	020	323.07	2	15	524	328.53
3	13	03	295.29	3	12	652	297.56	3	14	021	297.12	3	16	525	328.53
4	15	04	269.36	4	14	653	271.63	4	16	022	271.19	4	17	526	328.53
5	17	05	243.43	5	16	654	245.70	5	18	023	245.26	5	18	527	328.53
6	19	06	217.50	6	18	655	219.77	6	19	024	219.33	6	19	528	328.53
7	21	07	191.57	7	20	656	193.84	7	20	025	193.40	7	20	529	328.53
8	23	08	165.64	8	22	657	165.91	8	21	026	165.47	8	21	530	328.53
9	25	09	139.71	9	24	658	139.98	9	22	027	139.54	9	22	531	328.53
10	27	10	113.78	10	26	659	113.95	10	23	028	113.51	10	23	532	328.53

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. AP FRACTION	W3 062	W4 125	W5 250	W6 375	W7 500	W8 625	W9 750	W10 875	W11 1000										
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI		
1	17	919	168.90	1	13	502	170.27	1	9	643	190.21	1	2	592	193.49	1	3	501	193.75
2	18	920	166.06	2	14	503	167.43	2	10	644	187.36	2	3	593	191.66	2	4	502	191.75
3	19	921	163.22	3	15	504	164.59	3	11	645	184.51	3	5	594	189.83	3	6	503	190.19
4	20	922	160.38	4	16	505	161.75	4	12	646	181.66	4	7	595	186.99	4	7	504	190.19
5	21	923	157.54	5	17	506	158.91	5	13	647	178.81	5	8	596	184.15	5	8	505	190.19
6	22	924	154.70	6	18	507	156.07	6	14	648	175.96	6	9	597	181.31	6	9	506	190.19
7	23	925	151.86	7	19	508	153.22	7	15	649	173.12	7	10	598	178.47	7	10	507	190.19
8	24	926	149.02	8	20	509	150.38	8	16	650	170.27	8	11	599	175.63	8	11	508	190.19
9	25	927	146.18	9	21	510	147.54	9	17	651	167.43	9	12	600	172.79	9	12	509	190.19
10	26	928	143.34	10	22	511	144.70	10	18	652	164.59	10	13	601	169.95	10	13	510	190.19

DD.P X.RUN70

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163  ALPHA-MCL = 6.0      POP DUN.PT = 32.02
FILE 32  ALPHA-BAR = 2.0  O-COMP = 32567
RUN 2  SIGMA = -90.      V-REF = 200.14
POINT  .  COMPUTED FREQUENCY= 9.07, K = .0712

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
COMPUTE

BLADE NO.

**SUCIION**

N	CPREAL	CPIMAG
1	6.812	-.942
2	5.651	-.942
3	5.201	-.597
4	2.212	-.104
5	2.595	-.478
6	1.168	-.693
7	1.199	-.132
8	-.094	-.391
9	-.005	-.091

EX-012  
SUC TION

[illegible]

EX-030  
SUCTION

N	CPREAL	CPIMAG
1	13.3328	-3.8239
2	-1.312	-2.651
3	-2.644	-1.094
4	-	-.061
5	-.189	.993
6	-.418	.933
7	-.766	.187
8	-.032	-.081
9	-.029	-.081
10	-.045	-.081

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 163 ALPHA-MCL = 6.0 POP RUN.PI 32.02  
 RUN 32 ALPHA-BAR = 2.0 Q-COMP = 32567  
 POINT 32 SIGMA = -90.0 V-REF = 200.14  
 COMPUTED FREQUENCY = 9.07, K = .0712

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	2.295	10.350	1.532	1	2.419	-3.212	1	-2.419	-8.664	1	-6.484	1.474	1	1.700	5.680	1	-1.482	-5.365
2	2.519	2.661	-1.284	2	1.786	-1.881	2	1.786	1.047	2	-1.069	-1.371	2	-1.036	-1.875	2	1.100	-1.286
3	2.943	.212	-1.228	3	1.855	-1.881	3	-1.855	1.041	3	-1.069	-1.371	3	1.034	-1.473	3	1.124	-1.393
4	.011	.157	.532	4	1.016	-1.016	4	1.016	-.009	4	-1.046	-.006	4	1.034	-1.017	4	1.021	-.020
5	.320	.486	.779	5	1.038	-1.038	5	1.038	-.046	5	-1.025	-.008	5	1.022	-1.017	5	1.034	-.023
6	.327	.456	.773	6	1.038	-1.038	6	1.038	-.046	6	-1.025	-.008	6	1.022	-1.017	6	1.034	-.023
7	.257	.456	.773	7	1.168	-.017	7	1.168	-.017	7	-1.025	-.008	7	1.022	-1.017	7	1.034	-.023
8	.257	.456	.773	8	1.168	-.017	8	1.168	-.017	8	-1.025	-.008	8	1.022	-1.017	8	1.034	-.023
9	.149	.047	.314	9	1.153	-.017	9	1.153	-.017	9	-1.025	-.008	9	1.022	-1.017	9	1.034	-.023
10	-.133	.033	.160	10	.098	.161	10	.098	-.037	10	-1.011	-.021	10	1.019	.034	10	1.012	-.003
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-3.168	-7.573	1.311	1	3.311	5.837	1	8.557	-5.160	1	-7.122	10.642	1	5.486	9.003	1	5.486	9.003
2	1.177	.477	1.024	2	1.024	1.187	2	-1.317	-.725	2	1.064	-.922	2	.025	1.593	2	.025	1.593
3	.066	.090	.051	3	.051	.027	3	-.001	-.456	3	.096	-.614	3	.157	1.001	3	.157	1.001
4	-.017	.045	.042	4	.042	.030	4	.016	.036	4	-.082	-.071	4	.127	1.179	4	.127	1.179
5	-.091	-.058	.042	5	.042	.038	5	.041	-.041	5	-.035	-.071	5	.034	1.034	5	.034	1.034
6	-.063	-.038	.085	6	.085	.015	6	.047	-.047	6	-.035	-.071	6	.034	1.034	6	.034	1.034
7	.030	-.002	.037	7	.037	.047	7	.014	-.014	7	-.036	-.071	7	.034	1.034	7	.034	1.034
8	.062	.021	.017	8	.017	.032	8	.005	-.005	8	-.016	-.056	8	.034	1.034	8	.034	1.034
9	-.021	.013	.026	9	.026	.042	9	.030	-.030	9	-.011	-.035	9	.034	1.034	9	.034	1.034
10	-.021	.013	.026	10	.026	.042	10	.030	-.030	10	-.011	-.035	10	.034	1.034	10	.034	1.034

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938		
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-16.098	5.993	1	-12.636	3.021	1	-2.049	1.450
2	-1.911	.325	2	-1.321	-.601	2	-.066	-.548
3	-.013	.325	3	-.108	-.691	3	-.002	-.003
4	-.036	.279	4	-.033	-.075	4	-.002	-.003
5	-.064	.038	5	-.006	-.035	5	-.002	-.003
6	-.070	.002	6	-.032	-.015	6	-.002	-.003
7	-.004	.007	7	-.003	-.004	7	-.002	-.003
8	-.090	.002	8	-.007	-.004	8	-.002	-.003
9	-.002	.002	9	-.007	-.004	9	-.002	-.003
10	-.002	.002	10	-.007	-.004	10	-.002	-.003

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 163 ALPHA-MCL = 6.0 POP RUN.PT 32.02  
RUN 32 ALPHA-BAR = 2.0 Q-COMP = 32567  
POINT 2 SIGMA = -9C. V-REF = 200.14  
COMPUTED FREQUENCY = 9.07, K = .0712

FOUPIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
SUCTION

9

7

6

5

4

3

N	CP-MAG	PHI
1	6.877	172.13
2	7.507	41.17
3	.807	312.36
4	.227	27.36
5	.523	246.04
6	.213	130.66
7	.213	38.07
8	.400	107.25
9	.131	315.64
10	.091	86.88

X=.012 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	16.186	165.17	1	13.449	168.03	1	20.631	158.81	1	26.754	156.80	1	27.128	156.67	1	18.317	156.78	
2	8.742	139.22	2	7.230	41.90	2	.757	274.24	2	1.742	353.57	2	4.996	270.06	2	.138	326.01	
3	4.274	109.23	3	2.562	109.98	3	3.274	80.02	3	.517	172.92	3	1.031	270.85	3	.655	326.01	
4	1.508	339.18	4	.043	5.23	4	2.205	151.49	4	.541	13.74	4	1.482	212.33	4	.451	148.72	
5	1.071	47.53	5	.872	71.48	5	2.335	343.30	5	.481	263.57	5	.170	86.08	5	.456	323.79	
6	.421	205.88	6	.276	319.54	6	1.381	160.72	6	.060	116.88	6	.318	167.85	6	.178	184.93	
7	.051	355.23	7	.189	240.09	7	1.124	220.93	7	.237	197.04	7	.146	187.85	7	.088	244.39	
8	.276	99.23	8	.355	172.87	8	.324	262.30	8	.106	144.02	8	.203	165.30	8	.053	288.39	
9	.142	26.80	9	.127	56.94	9	.321	158.79	9	.226	144.02	9	.149	244.25	9	.073	105.05	
10	.202	74.62	10	.127	56.94	10	.321	158.79	10	.226	144.02	10	.149	244.25	10	.073	105.05	

X=.030  
SUCTION

N	CP-MAG	PHI
1	13.873	163.93
2	2.959	242.45
3	1.986	99.04
4	.646	182.04
5	.979	258.85
6	.646	130.29
7	.831	202.76
8	.189	260.34
9	.230	172.91
10	.093	240.45

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 153 ALPHA-MCL = 6.0 POP RUN PT 32.02  
 RUN 32 ALPHA-BR = 2.0 Q-COMP = 32567  
 POINT SIGNA = -90. V-REP = 200.14  
 COMPUTED FREQUENCY = 9.07, N = .0712  
 FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	1	4	5	6	7	9						
X=062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	10	.602	167.50	1	11.971	164.44	1	9.111	161.98	1	6.893	165.72
2	3	3.664	226.57	2	4.787	224.15	2	2.070	210.38	2	1.866	178.90
3	2	.260	288.11	3	1.887	312.87	3	1.917	280.54	3	.419	184.87
4	5	.966	12.59	4	3.336	132.59	4	1.136	333.42	4	.080	80.37
5	4	.158	176.07	5	1.317	246.15	5	.557	29.50	5	.062	200.88
6	7	.582	303.41	6	1.070	316.70	6	.243	81.29	6	.024	128.94
7	8	.481	177.13	7	.370	252.93	7	.268	312.29	7	.028	191.18
8	9	.229	177.13	8	.365	252.93	8	.299	32.39	8	.043	209.98
9	10	.133	358.49	9	.227	45.23	9	.154	96.91	9	.039	241.50
10				10			10	.061	141.91	10	.035	241.50
X=012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	8	.208	337.30	1	6.711	330.43	1	9.993	326.21	1	12.805	326.21
2	3	1.202	201.68	2	1.041	190.73	2	1.503	208.83	2	.193	185.48
3	4	.483	188.82	3	.487	341.73	3	.438	208.93	3	.614	180.18
4	5	.112	53.52	4	.052	235.01	4	.022	108.64	4	.118	324.44
5	6	.089	201.03	5	.040	235.01	5	.057	108.64	5	.100	302.19
6	7	.107	32.63	6	.090	279.43	6	.024	224.15	6	.079	62.19
7	8	.074	58.58	7	.036	204.60	7	.023	224.15	7	.080	35.29
8	9	.030	355.93	8	.050	204.60	8	.035	224.15	8	.057	15.18
9	10	.065	108.56	9	.041	230.45	9	.031	348.55	9	.037	72.50
10				10			10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	GAP FRACTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	17	.178	159.58	50	1	.995	166.50	1	5.146	184.50	1	2.692	209.37
2	3	.325	227.03	78	2	.0156	218.98	2	.547	280.07	2	.626	290.16
3	4	.581	71.03	91	3	.429	210.01	3	.081	279.51	3	.095	260.09
4	5	.284	97.32	55	4	.204	191.51	4	.109	53.53	4	.089	72.39
5	6	.184	150.54	85	5	.165	191.65	5	.077	255.30	5	.079	113.67
6	7	.070	168.16	65	6	.138	244.85	6	.065	255.30	6	.045	113.67
7	8	.008	228.92	65	7	.037	321.65	7	.027	321.65	7	.028	321.65
8	9	.000	178.71	71	8	.078	241.23	8	.053	108.64	8	.003	283.39
9	10			10	9			9			9		
10				10	10			10			10		



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 165 ALPHA-MCL = 6.0 PDP RUN:PT 32.04  
 RUN 32 ALPHA-BAR = 2.0 O-COMP = .32593  
 POINT 4 SIGMA = -9C. V-REF = 200.22  
 COMPUTED FREQUENCY = 15.48, K = .1214

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=.012  
 SUCTION

9

7

6

5

4

3

N CPREAL CPIWAG  
 1 7.939 -.317  
 2 7.226 3.948  
 3 -.267 7.701  
 4 .284 -.028  
 5 .308 .386  
 6 .025 .728  
 7 .220 .054  
 8 .219 .198  
 9 .012 .076  
 10 .097 .050

X=.012  
 SUCTION

N CPREAL CPIWAG N CPREAL CPIWAG N CPREAL CPIWAG N CPREAL CPIWAG N CPREAL CPIWAG  
 1 5.240 15.692 1 14.065 -2.703 1 -7.506 -18.181 1 -23.451 11.623 1 12.289 24.276 1 -8.119 -17.017  
 2 -5.544 -2.610 2 6.893 3.623 2 -1.844 -.181 2 1.297 3.542 2 3.978 2.835 2 2.463 1.550  
 3 -.407 -1.960 3 1.881 -3.772 3 -2.843 -.508 3 .752 3.889 3 .216 3.306 3 -.501 -.001  
 4 .241 -1.176 4 -.771 -.496 4 -.955 -1.047 4 -.694 .054 4 -.771 .501 4 -.289 -.336  
 5 .312 -.235 5 .187 -.661 5 .307 -.647 5 .348 .054 5 .052 .306 5 .138 .329  
 6 .107 -.092 6 .187 -.064 6 .512 -.931 6 .105 .329 6 .066 .013 6 .072 .023  
 7 .274 .092 7 -.054 -.200 7 .526 .231 7 .194 .106 7 .062 .028 7 .110 .002  
 8 .103 .023 8 .124 .120 8 .120 .058 8 .077 .133 8 .091 .080 8 .091 .001  
 9 .023 .023 9 .033 .033 9 .176 .238 9 .094 .013 9 .063 .063 9 .025 .025  
 10 -.023 -.023 10 .020 .020 10 .176 .238 10 .094 .013 10 .063 .063 10 .025 .025

X=.030  
 SUCTION

N CPREAL CPIWAG  
 1 13.344 -.093  
 2 -1.174 -2.208  
 3 -2.450 -2.005  
 4 -2.617 1.222  
 5 .635 .769  
 6 .081 .761  
 7 .707 .311  
 8 -.065 -.152  
 9 -.072 -.217  
 10 -.120 .042

```

165 ALPHA-MCL = 6.0      PDP RUN.PT 32.04
32  ALPHA-BAR = 2.0      Q-COMP = 32593
4   SIGMA = -90.         V-REF = 200.22
      COMPUTED FREQUENCY = 15.48, K = .1214

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ED FREQUENCY = 15.48;

LADE NO. 062  
SUCIION

BLADE NO.	3			4			5			6			7			9		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
X=062	1	3.263	12.177	1	13.298	-3.580	1	3.574	-9.927	1	-6.296	1.970	1	2.027	-6.801	1	-1.650	-5.209
SUCTION	2	3.140	3.381	2	-3.263	-3.417	2	2.420	2.156	2	.167	-.119	2	-.239	.168	2	-.188	-.057
	3	2.477	1.082	3	-1.022	1.691	3	-2.402	-3.322	3	-.065	-.080	3	-.096	.078	3	-.058	-.057
	4	.569	.468	4	1.544	1.853	4	1.256	-.332	4	-.047	.020	4	-.036	.016	4	-.014	-.049
	5	.060	.888	5	1.422	.866	5	-.206	.254	5	.064	.034	5	.061	.028	5	.036	-.021
	6	.164	.988	6	1.422	-.876	6	-.206	.299	6	.003	.042	6	.016	.069	6	.013	-.022
	7	.239	.441	7	1.607	-1.162	7	-.187	-.272	7	-.003	.034	7	.018	-.019	7	.006	-.010
	8	.064	.095	8	-.267	-.132	8	-.127	-.071	8	-.030	.034	8	-.036	.008	8	.003	.018
	9	-.049	-.018	9	-.062	.232	9	-.287	-.171	9	-.030	-.031	9	-.000	-.339	9	-.000	-.018
	10	-.159	.011	10	.099	.064	10	.047	.047	10	-.016	-.031	10	.022	-.008	10	-.001	-.011
X=012	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
PRESSURE	1	-4.160	-7.399	1	3.488	6.442	1	3.488	6.442	1	8.064	-5.111	1	-7.922	-9.146	1	5.953	9.828
	2	1.009	.240	2	1.060	.440	2	1.060	.440	2	-1.323	-.001	2	-.133	.261	2	.894	.850
	3	.108	.083	3	-.020	.125	3	-.020	.125	3	-.017	.014	3	-.093	.131	3	.402	.299
	4	.067	.050	4	.034	.066	4	.034	.066	4	-.040	.004	4	-.100	.078	4	.221	.169
	5	.012	.052	5	.009	.032	5	.009	.032	5	-.027	.004	5	-.004	.088	5	.088	.213
	6	.060	.067	6	.006	.044	6	.006	.044	6	-.040	.004	6	.065	.088	6	-.052	.042
	7	.081	.060	7	.002	.001	7	.002	.001	7	-.014	.004	7	.013	.021	7	-.042	.029
	8	.030	.021	8	.002	.011	8	.002	.011	8	-.014	.004	8	.021	.032	8	-.042	.026
	9	.028	.000	9	.011	.005	9	.011	.005	9	.025	.003	9	.024	.016	9	-.022	.008
	10	-.028	.000	10	.011	.005	10	.011	.005	10	.025	.003	10	.024	.016	10	-.022	.008

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.  
GAP FRACTION

WALL NO.	GAP FRACTION	W3		W4		W5		W7		W8		W9	
		N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL	N	CPREAL
1	15	487	6.677	3.808	1.607	3.443	1.859	2.322	819	2.193	2.337	2.173	1.093
2	12	417	1.870	1.518	5.277	1.459	0.889	1.322	165	2.233	2.443	2.022	1.193
3	7	157	2.370	2.720	5.277	1.573	0.294	0.320	105	0.338	0.373	0.322	0.97
4	5	225	2.497	0.641	1.923	0.941	0.041	0.294	25	0.066	0.033	0.023	0.97
5	9	297	0.246	0.671	0.923	0.941	0.051	0.21	35	0.016	0.001	0.014	0.16
6	9	222	0.734	0.647	0.943	0.671	0.363	0.46	67	0.051	0.022	0.007	0.10
7	9	222	0.734	0.647	0.943	0.671	0.363	0.46	67	0.051	0.022	0.007	0.10
8	9	222	0.734	0.647	0.943	0.671	0.363	0.46	67	0.051	0.022	0.007	0.10
9	9	222	0.734	0.647	0.943	0.671	0.363	0.46	67	0.051	0.022	0.007	0.10
10	9	222	0.734	0.647	0.943	0.671	0.363	0.46	67	0.051	0.022	0.007	0.10

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 165 ALPHA-MCL = 6.0 POP RUN-PI 32.04  
 RUN 32 ALPHA-BAR = 2.0 Q-COMP = .32593  
 POINT 4 SIGMA = -90.0 V-REF = 200.22  
 COMPUTED FREQUENCY = 15.48, K = .1214

FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 8 9

XE-005  
 SUCTION

N	CP-MAG	PHI
1	7.945	177.71
2	8.234	28.65
3	.750	290.82
4	.284	358.31
5	.478	229.86
6	.729	268.03
7	.058	249.98
8	.295	42.10
9	.077	261.29
10	.109	27.33

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	16.544	161.53	1	14.323	169.12	1	19.670	157.57	1	26.173	153.53	1	27.210	153.15
2	8.934	19.95	2	7.792	27.71	2	1.853	354.44	2	1.406	337.34	2	4.804	316.17
3	4.734	77.12	3	3.728	94.16	3	1.853	82.44	3	1.961	379.05	3	.375	324.15
4	1.068	292.40	4	2.033	357.69	4	3.353	147.99	4	.825	147.19	4	.942	144.94
5	1.201	11.58	5	.917	32.77	5	1.716	222.36	5	.350	8.95	5	.310	189.58
6	.203	146.67	6	.688	285.96	6	1.716	64.65	6	.350	249.69	6	.073	334.12
7	.293	211.94	7	.100	140.46	7	.525	138.23	7	.132	322.40	7	.045	138.10
8	.107	77.62	8	.178	254.88	8	.313	203.87	8	.085	151.40	8	.158	357.66
9	.036	309.96	9	.038	314.23	9	.273	170.20	9	.095	205.23	9	.074	212.66
10			10			10			10			10		

XE-030  
 SUCTION

N	CP-MAG	PHI
1	13.957	162.95
2	2.501	242.00
3	2.055	77.36
4	.868	154.97
5	.998	230.42
6	.766	83.93
7	.773	156.24
8	.165	246.86
9	.227	108.42
10		

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 165 ALPHA-MCL = 6.0 POP RUN-PT 32.04  
 RUN 32 ALPHA-BAR = 2.0 Q-COMP = .32593  
 POINT 4 SIGMA = -90. V-REF = 200.22  
 COMPUTED FREQUENCY = 15.48, K = .1214  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	12.606	165.40	12.808	160.20	7.096	163.43
2	4.615	227.11	4.724	1221.02	1.292	1308.95
3	2.667	293.94	1.976	2208.34	.124	155.57
4	.737	39.40	1.011	278.18	.040	111.49
5	.847	175.95	1.661	56.53	.067	111.49
6	.802	260.58	.208	188.04	.071	227.05
7	.502	331.53	.238	320.33	.027	167.35
8	.114	356.77	.331	11.29	.037	159.86
9	.150	326.77	.186	119.00	.039	159.86
10	.159	356.06	.067	224.78	.023	159.12
X=.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	8.488	330.65	7.376	331.57	12.100	319.10
2	1.038	193.36	1.118	203.19	.193	195.42
3	.279	203.07	.139	205.45	.135	195.42
4	.097	328.90	.021	163.23	.117	232.44
5	.085	127.92	.057	313.55	.088	232.44
6	.048	104.62	.045	258.23	.067	232.44
7	.100	135.52	.064	268.99	.051	232.44
8	.047	129.19	.011	288.89	.026	232.44
9	.021	183.01	.015	16.32	.051	232.44
10	.028	359.37	.015	223.32	.015	232.44

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 N CP-MAG PHI	W4 N CP-MAG PHI	W5 N CP-MAG PHI	W7 N CP-MAG PHI	W8 N CP-MAG PHI	W9 N CP-MAG PHI
1	15.865	156.61	12.195	183.75	2.476	199.19
2	.272	223.94	.252	258.60	.201	199.19
3	.172	223.94	.159	98.84	.088	166.40
4	.262	138.48	.098	160.40	.036	103.09
5	.262	345.03	.097	160.37	.036	103.09
6	.040	153.93	.036	160.37	.036	103.09
7	.078	108.20	.061	139.67	.034	103.09
8	.093	193.30	.057	132.27	.019	245.00
9	.087	243.48	.081	162.71	.024	245.00
10			.004	162.71	.024	245.00

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 167 ALPHA-MCL = 6.0 PUP RUN-PT 32.06  
 RUN 32 ALPHA-BAR = 2.0 O-COMP = 32567  
 POINT 6 SIGMA = -90. V-REF = 200.14  
 COMPUTED FREQUENCY = 19.08, K = .1698

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XZ-005  
 SUCTION

N	CPREAL	CPIMAG
1	8.804	-1.150
2	7.633	2.535
3	-7.705	-.384
4	-.388	-.161
5	.398	.370
6	.176	.440
7	.014	.023
8	.024	.023
9	-.046	.072
10	.069	-.015

XZ-012  
 SUCTION

N	CPREAL	CPIMAG
1	5.234	15.734
2	-4.780	2.817
3	-3.959	2.810
4	-.305	-.085
5	-.501	-.132
6	-.212	-.180
7	.095	-.039
8	.178	-.047
9	.004	-.167
10	.008	-.167

XZ-030  
 SUCTION

N	CPREAL	CPIMAG
1	13.286	-4.587
2	-1.450	-1.471
3	-1.318	-1.694
4	-1.805	2.047
5	.216	.370
6	.400	.438
7	-.158	-.132
8	-.050	-.056
9	-.063	-.034
10	-.063	-.034

9

7

6

5

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	12.929	23.815	1	12.929	23.815	1	12.929	23.815
2	9.044	2.228	2	9.044	2.228	2	9.044	2.228
3	-.521	-.521	3	-.521	-.521	3	-.521	-.521
4	-.521	-.521	4	-.521	-.521	4	-.521	-.521
5	-.140	-.140	5	-.140	-.140	5	-.140	-.140
6	-.083	-.083	6	-.083	-.083	6	-.083	-.083
7	-.052	-.052	7	-.052	-.052	7	-.052	-.052
8	-.052	-.052	8	-.052	-.052	8	-.052	-.052
9	-.052	-.052	9	-.052	-.052	9	-.052	-.052
10	-.052	-.052	10	-.052	-.052	10	-.052	-.052

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 167 ALPHA-MCL = 6.0 PUP RUN.PT 32.06  
 RUN 32 ALPHA-BAR = 2.0 Q-COMP = .32567  
 POINT 6 SIGMA = -90. V-REF = 200.14  
 COMPUTED FREQUENCY = 19.08, K = .1498

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=082 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	4.503	11.943	1.192	1	12.217	-4.192	1	-3.883	-10.167	1	-6.141	2.242	1	2.422	6.774	1	-1.543	-5.009
2	4.056	12.424	-1.020	2	-3.731	-3.020	2	-3.893	1.842	2	-.082	-.292	2	-.075	-.031	2	-.088	-1.122
3	2.898	15.7	1.844	3	-.802	1.094	3	-3.628	-.594	3	-.043	-.130	3	-.009	-.078	3	-.010	-.079
4	2.682	1.227	1.021	4	1.094	-.597	4	-1.008	-.159	4	-.067	-.130	4	-.009	-.078	4	-.005	-.031
5	2.686	1.459	1.132	5	1.343	-.159	5	1.301	-.114	5	-.067	-.084	5	-.009	-.078	5	-.005	-.015
6	2.645	1.343	1.082	6	1.378	-.114	6	1.278	-.134	6	-.067	-.084	6	-.009	-.078	6	-.007	-.009
7	2.621	1.181	1.055	7	1.343	-.052	7	1.320	-.134	7	-.067	-.084	7	-.009	-.078	7	-.007	-.009
8	2.619	1.180	1.055	8	1.343	-.052	8	1.320	-.134	8	-.067	-.084	8	-.009	-.078	8	-.007	-.009
9	2.609	1.095	1.095	9	1.104	-.003	9	1.104	-.003	9	-.067	-.084	9	-.009	-.078	9	-.003	-.013
10	2.601	1.04	1.04	10	1.011	-.003	10	1.011	-.003	10	-.067	-.084	10	-.009	-.078	10	-.001	-.013
X=012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-4.289	-7.134	1.134	1	3.962	6.416	1	8.398	-5.228	1	-7.700	-8.514	1	6.618	9.826	1	1.293	-.073
2	-.868	-.048	1.46	2	1.073	1.17	2	-1.137	-.362	2	-.072	-.242	2	1.293	-.073	2	1.293	-.073
3	-.107	-.452	1.17	3	-.092	-.079	3	-.160	-.097	3	-.052	-.035	3	1.293	-.073	3	1.293	-.073
4	-.124	-.207	1.03	4	-.054	-.003	4	-.022	-.034	4	-.041	-.009	4	1.293	-.073	4	1.293	-.073
5	-.057	-.029	1.03	5	-.033	-.041	5	-.034	-.030	5	-.026	-.014	5	1.293	-.073	5	1.293	-.073
6	-.034	-.035	1.03	6	-.008	-.029	6	-.013	-.022	6	-.014	-.010	6	1.293	-.073	6	1.293	-.073
7	-.011	-.014	1.03	7	-.004	-.012	7	-.002	-.037	7	-.003	-.017	7	1.293	-.073	7	1.293	-.073
8	-.020	-.010	1.03	8	-.001	-.001	8	-.001	-.001	8	-.001	-.001	8	1.293	-.073	8	1.293	-.073
9	-.048	-.010	1.03	9	-.008	-.008	9	-.008	-.008	9	-.008	-.008	9	1.293	-.073	9	1.293	-.073
10	-.038	-.067	1.03	10	-.008	-.008	10	-.008	-.008	10	-.008	-.008	10	1.293	-.073	10	1.293	-.073

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938		
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1-15	.211	7.315	1-12	.353	4.304	1-9	.547	-.689
2-3	.011	-2.068	2-1	.772	-1.705	2-4	.617	-.353
3-4	.092	-.409	3-2	.531	-.072	3-6	-.097	-.009
4-5	.118	-.279	4-3	.047	-.027	4-9	-.019	-.014
5-6	.047	-.045	5-7	.031	-.027	5-5	-.006	-.010
6-7	.021	-.033	6-8	.021	-.086	6-7	-.001	-.010
7-8	.021	-.038	7-9	.070	-.002	7-8	-.001	-.013
8-9	.051	-.013	8-10	.037	-.019	8-9	-.006	-.016
9-10	.051	-.013	9-10	.023	-.006	9-10	-.006	-.016

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 167 ALPHA-MCL = 6.0 PDP RUN-PT 12.06  
 RUN 32 ALPHA-BAR = 2.0 O-COMP = 32567  
 POINT 5 SIGMA = -9.0 V-REF = 200.14  
 COMPUTED FREQUENCY = 19.08, K = .1498

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X2-C12  
 SUCTION

9

7

6

5

4

N	CP-MAG	PHI
1	8.806	179.02
2	8.043	18.37
3	.803	331.41
4	.544	222.92
5	.474	68.17
6	.034	246.01
7	.263	11.71
8	.085	302.40
9	.071	347.97
10		

X2-C12  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	16.582	161.90	1	19.036	156.89	1	25.588	152.05	1	27.098	151.50	1	18.551	152.94
2	4.899	52.72	2	3.950	349.06	2	3.720	338.03	2	4.217	320.98	2	12.930	206.06
3	4.435	53.86	3	3.170	63.93	3	1.720	711.03	3	.297	302.76	3	.498	285.80
4	1.017	314.55	4	1.142	130.60	4	.708	148.66	4	.227	138.38	4	.371	132.71
5	1.250	330.52	5	.563	202.28	5	.216	155.30	5	.087	218.14	5	.304	200.69
6	.204	311.92	6	.872	40.42	6	.017	250.14	6	.055	17.73	6	.067	261.05
7	.182	207.59	7	.377	120.36	7	.159	144.74	7	.054	259.61	7	.051	195.66
8	.087	4.54	8	.076	185.01	8	.115	157.83	8	.088	16.56	8	.043	192.37
9	.188	92.19	9	.219	126.95	9	.104	142.01	9	.031	134.97	9	.033	132.67
10			10			10			10			10		

X2-C12  
 SUCTION

N	CP-MAG	PHI
1	14.056	160.95
2	2.885	239.60
3	2.729	52.11
4	1.017	131.41
5	.039	207.65
6	.533	132.39
7	.206	219.86
8	.076	49.17
9	.072	151.40
10		

# MODE 2 -- LEADING EDGE DATA, WALL STATIONS

FILE 167 ALPHA-MCL = 6.0 POP RUN.PI 32.06  
 RUN 32 ALPHA-BAR = 2.0 D-COMP PT 32567  
 POINT 6 SIGMA = -90. V-REF = 200.14  
 COMPUTED FREQUENCY = 19.08, K = .1498  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9						
X=.062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	12	.763	159.34	1	10.883	159.40	1	6.537	159.95	1	7.194	160.32
2	4	.725	210.87	2	2.672	210.96	2	.719	226.69	2	.082	237.52
3	7	.702	227.73	3	1.671	227.93	3	.132	228.15	3	.081	230.02
4	8	.691	244.82	4	1.120	229.35	4	.050	235.89	4	.078	236.88
5	1	.871	135.09	5	.301	262.11	5	.050	235.71	5	.031	236.52
6	1	.010	213.53	6	.307	292.79	6	.050	235.90	6	.031	265.52
7	1	.023	274.53	7	.276	10.32	7	.020	135.90	7	.026	191.45
8	1	.623	358.05	8	.104	91.28	8	.024	187.13	8	.012	191.12
9	1	.118	246.40	9	.012	167.28	9			9		
10	1	.141	317.44	10			10			10		
X=.012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	8	.324	328.99	1	7.580	328.31	1	9.893	329.10	1	11.480	317.87
2	1	.869	176.61	2	1.082	187.15	2	1.187	197.67	2	.253	257.67
3	1	.547	145.40	3	.049	211.11	3	.030	211.11	3	.063	267.79
4	1	.241	239.14	4	.044	267.26	4	.041	289.73	4	.092	326.79
5	1	.063	243.11	5	.043	308.24	5	.031	345.71	5	.035	331.38
6	1	.026	123.37	6	.039	148.84	6	.025	148.46	6	.017	136.28
7	1	.025	214.73	7	.022	161.21	7	.030	229.19	7	.023	136.22
8	1	.049	101.66	8	.008	171.48	8	.048	305.31	8		
9	1	.077	299.86	9			9			9		
10	1			10			10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

GAP FRACTION	W3 .062	W4 .125	W5 .250	W6 .375	W7 .750	W9						
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI				
1	19	.888	154.33	1	.081	160.79	1	.555	183.92	1	.454	199.72
2	3	.419	282.97	2	.459	122.30	2	.114	197.00	2	.125	252.00
3	3	.378	173.97	3	.536	172.54	3	.032	223.00	3	.022	239.00
4	3	.303	112.68	4	.066	215.59	4	.022	138.89	4	.022	154.29
5	3	.057	103.62	5	.089	220.32	5	.010	289.55	5	.022	174.33
6	3	.044	214.33	6	.070	245.15	6	.016	30.90	6	.021	314.55
7	3	.022	322.41	7	.042	332.38	7	.006	269.69	7	.010	269.51
8	3	.053	165.17	8	.024	194.68	8	.018	269.69	8	.017	269.51
9	3			9			9			9		
10	3			10			10			10		



OCWT PERIODICITY TEST  
 MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS  
 FILE 145 ALPHA-MCL = 6.0 POP RUN.PT 29.04  
 RUN 29 ALPHA-BAR = 2.0 O-COMP = .32191  
 POINT 2 ALPHA-SIGMA = -.45 V-REF = .198.96  
 COMPUTED FREQUENCY = 9.37, K = .0716  
 FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

XE:005  
 SUCTION

N	CPREAL	CPIMAG
1	-3.594	-8.684
2	-4.345	-7.737
3	1.062	-4.74
4	-1.116	.233
5	-0.062	.338
6	-0.222	-0.016
7	-0.288	.024
8	-0.064	.040
9	.055	.023
10	-.016	.011

XE:012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	3.819	-17.667	1	-6.491	-13.153	1	-19.933	-4.008	1	-3.543	19.308
2	-.194	-6.269	2	-6.258	-1.131	2	-.863	-2.857	2	-.952	3.507
3	.372	1.006	3	1.693	-.520	3	-.178	-.267	3	-.590	3.571
4	-.071	.100	4	-.292	-.378	4	1.509	-1.143	4	-.023	-.228
5	-.042	.161	5	-.158	-.322	5	1.509	1.610	5	.123	-.228
6	-.172	-.172	6	-.048	-.155	6	-.523	1.002	6	.116	-.062
7	-.034	-.174	7	.132	-.243	7	-.179	-.076	7	-.098	.038
8	.009	-.196	8	-.029	-.186	8	-.089	-.153	8	.003	.133
9	.003	-.191	9	-.082	-.002	9	-.056	-.032	9	-.073	-.101
10			10			10			10	-.037	-.022

XE:030  
 SUCTION

N	CPREAL	CPIMAG
1	-6.267	-11.237
2	-4.515	-1.826
3	-1.501	.252
4	-.285	.693
5	-.142	-1.000
6	-.480	.235
7	-.123	.093
8	-.083	-.109
9	.053	-.083
10	.096	

# OCWT PERIODICITY TEST MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 145 ALPHA-MCL = 6.0 POP RUN-PT 29.04  
RUN 29 ALPHA-BAR = 2.0 O-COMP = .32191  
POINT 2 SIGMA = -45. V-REF = 198.96  
COMPUTED FREQUENCY = 9.07, K = .0716

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X:062  
SUCTION

	4	5	6	7	9
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	2.295	-5.635	1	-5.000	2.056
2	-2.222	1.031	2	-1.155	-2.153
3	-2.118	1.031	3	-1.155	-2.153
4	-2.000	1.031	4	-1.155	-2.153
5	-1.886	1.031	5	-1.155	-2.153
6	-1.777	1.031	6	-1.155	-2.153
7	-1.666	1.031	7	-1.155	-2.153
8	-1.556	1.031	8	-1.155	-2.153
9	-1.444	1.031	9	-1.155	-2.153
10	-1.333	1.031	10	-1.155	-2.153

X:012  
PRESSURE

	4	5	6	7	9
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	6.407	6.407	1	-5.000	2.056
2	-2.222	1.031	2	-1.155	-2.153
3	-2.118	1.031	3	-1.155	-2.153
4	-2.000	1.031	4	-1.155	-2.153
5	-1.886	1.031	5	-1.155	-2.153
6	-1.777	1.031	6	-1.155	-2.153
7	-1.666	1.031	7	-1.155	-2.153
8	-1.556	1.031	8	-1.155	-2.153
9	-1.444	1.031	9	-1.155	-2.153
10	-1.333	1.031	10	-1.155	-2.153

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. 3  
GAP FRACTION .062

	4	5	6	7	9
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	11.787	6.494	1	-1.549	-1.173
2	-2.113	1.031	2	-1.155	-2.153
3	-2.000	1.031	3	-1.155	-2.153
4	-1.886	1.031	4	-1.155	-2.153
5	-1.777	1.031	5	-1.155	-2.153
6	-1.666	1.031	6	-1.155	-2.153
7	-1.556	1.031	7	-1.155	-2.153
8	-1.444	1.031	8	-1.155	-2.153
9	-1.333	1.031	9	-1.155	-2.153
10	-1.222	1.031	10	-1.155	-2.153

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 185 ALPHA-MCL = 6.0 PDP RUN PT 29.09  
 RUN 28 ALPHA-BAR = 5.0 O-COMP = 32.91  
 POINT 2 SIGMA = -5.0 V-REF = 198.96  
 COMPUTED FREQUENCY = 9.07, K = .0716

FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	5	6	7	9
X=005 SUCTION	N CP-MAG PHI 1 9.437 156.95 2 4.407 9.63 3 1.163 65.93 4 .261 116.41 5 .343 10.43 6 .027 16.21 7 .289 265.20 8 .076 148.00 9 .060 292.77 10 .019 324.70	N CP-MAG PHI 1 9.437 156.95 2 4.407 9.63 3 1.163 65.93 4 .261 116.41 5 .343 10.43 6 .027 16.21 7 .289 265.20 8 .076 148.00 9 .060 292.77 10 .019 324.70	N CP-MAG PHI 1 9.437 156.95 2 4.407 9.63 3 1.163 65.93 4 .261 116.41 5 .343 10.43 6 .027 16.21 7 .289 265.20 8 .076 148.00 9 .060 292.77 10 .019 324.70	N CP-MAG PHI 1 9.437 156.95 2 4.407 9.63 3 1.163 65.93 4 .261 116.41 5 .343 10.43 6 .027 16.21 7 .289 265.20 8 .076 148.00 9 .060 292.77 10 .019 324.70	N CP-MAG PHI 1 9.437 156.95 2 4.407 9.63 3 1.163 65.93 4 .261 116.41 5 .343 10.43 6 .027 16.21 7 .289 265.20 8 .076 148.00 9 .060 292.77 10 .019 324.70
X=012 SUCTION	N CP-MAG PHI 1 18.075 147.20 2 6.293 156.97 3 .194 159.97 4 .385 194.88 5 .368 146.18 6 .113 22.07 7 .243 89.07 8 .177 259.07 9 .196 137.71 10 .191 179.17	N CP-MAG PHI 1 18.075 147.20 2 6.293 156.97 3 .194 159.97 4 .385 194.88 5 .368 146.18 6 .113 22.07 7 .243 89.07 8 .177 259.07 9 .196 137.71 10 .191 179.17	N CP-MAG PHI 1 18.075 147.20 2 6.293 156.97 3 .194 159.97 4 .385 194.88 5 .368 146.18 6 .113 22.07 7 .243 89.07 8 .177 259.07 9 .196 137.71 10 .191 179.17	N CP-MAG PHI 1 18.075 147.20 2 6.293 156.97 3 .194 159.97 4 .385 194.88 5 .368 146.18 6 .113 22.07 7 .243 89.07 8 .177 259.07 9 .196 137.71 10 .191 179.17	N CP-MAG PHI 1 18.075 147.20 2 6.293 156.97 3 .194 159.97 4 .385 194.88 5 .368 146.18 6 .113 22.07 7 .243 89.07 8 .177 259.07 9 .196 137.71 10 .191 179.17
X=030 SUCTION	N CP-MAG PHI 1 12.866 150.85 2 4.870 202.02 3 1.522 260.49 4 .749 112.34 5 1.010 171.92 6 .514 214.08 7 .164 232.09 8 .050 203.03 9 .174 197.27 10 .127 220.99	N CP-MAG PHI 1 12.866 150.85 2 4.870 202.02 3 1.522 260.49 4 .749 112.34 5 1.010 171.92 6 .514 214.08 7 .164 232.09 8 .050 203.03 9 .174 197.27 10 .127 220.99	N CP-MAG PHI 1 12.866 150.85 2 4.870 202.02 3 1.522 260.49 4 .749 112.34 5 1.010 171.92 6 .514 214.08 7 .164 232.09 8 .050 203.03 9 .174 197.27 10 .127 220.99	N CP-MAG PHI 1 12.866 150.85 2 4.870 202.02 3 1.522 260.49 4 .749 112.34 5 1.010 171.92 6 .514 214.08 7 .164 232.09 8 .050 203.03 9 .174 197.27 10 .127 220.99	N CP-MAG PHI 1 12.866 150.85 2 4.870 202.02 3 1.522 260.49 4 .749 112.34 5 1.010 171.92 6 .514 214.08 7 .164 232.09 8 .050 203.03 9 .174 197.27 10 .127 220.99

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 145 ALPHA-MCL = 6.0 PDP RUN.PI 29.04  
 RUN 129 ALPHA-BAR = 2.0 G-COMP = .32191  
 POINT 2 SIGMA = -45. V-REF = 198.96  
 COMPUTED FREQUENCY = 9.07, K = .0716  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SECTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	6.084 157.16	7.295 155.51	5.648 156.90	5.480 157.96	5.503 158.08	5.259 151.69
2	1.036 209.48	2.366 200.09	3.318 248.86	2.292 173.92	1.743 173.53	1.108 221.21
3	1.013 237.35	2.214 253.12	3.185 304.64	1.67 179.11	1.067 261.79	0.41 246.15
4	1.003 290.23	1.298 309.44	1.85 344.97	0.91 177.20	0.28 237.79	0.54 231.18
5	1.003 343.70	1.608 371.78	1.38 32.13	0.04 170.41	0.64 168.13	0.07 235.63
6	1.385 371.41	2.156 328.78	2.32 28.27	0.24 166.35	0.04 168.13	0.07 235.63
7	1.194 328.19	2.250 250.63	2.88 295.12	0.27 17.17	0.56 127.38	0.07 235.63
8	1.064 345.91	1.336 244.47	0.26 228.02	0.18 19.46	0.38 127.38	0.07 235.63
9	1.064 345.91	1.336 244.47	0.26 228.02	0.18 19.46	0.38 127.38	0.07 235.63
10	1.05 52.58	0.40 214.14	0.27 257.84	0.14 93.65	0.18 250.68	0.023 122.99
X=.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	6.430 319.83	5.758 316.51	7.352 316.90	9.092 310.22	8.495 315.87	8.495 315.87
2	6.49 154.05	1.69 161.85	1.95 181.22	1.607 159.88	1.228 162.57	1.228 162.57
3	0.29 234.56	0.57 238.99	0.45 228.37	0.27 15.80	0.27 159.59	0.27 159.59
4	0.22 117.58	0.26 138.37	0.33 139.74	0.43 1.70	0.59 234.65	0.43 1.70
5	0.31 164.30	0.25 359.74	0.43 285.48	0.53 169.84	0.53 169.84	0.53 169.84
6	0.72 316.78	0.50 341.37	0.33 281.81	0.27 144.74	0.27 144.74	0.27 144.74
7	0.80 319.98	0.61 334.68	0.52 334.29	0.31 294.67	0.31 294.67	0.31 294.67
8	0.48 222.08	0.25 11.22	0.17 210.25	0.21 142.52	0.21 142.52	0.21 142.52
9	0.15 283.64	0.15 121.42	0.13 210.25	0.21 142.52	0.21 142.52	0.21 142.52
10	0.15 283.64	0.15 121.42	0.13 210.25	0.21 142.52	0.21 142.52	0.21 142.52

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 N CP-MAG PHI	W4 N CP-MAG PHI	W5 N CP-MAG PHI	W7 N CP-MAG PHI	W8 N CP-MAG PHI	W9 N CP-MAG PHI
1	13.458 151.15	11.301 160.28	4.302 169.90	2.042 209.44	1.922 219.38	1.847 222.53
2	12.153 191.14	11.880 219.76	4.302 169.90	2.042 209.44	1.922 219.38	1.847 222.53
3	1.501 161.36	1.750 158.39	2.46 165.34	3.082 169.61	3.17 169.61	3.062 167.69
4	1.061 92.21	1.119 339.16	0.45 339.93	0.41 5.26	0.41 5.26	0.41 5.26
5	1.061 92.21	1.119 339.16	0.45 339.93	0.41 5.26	0.41 5.26	0.41 5.26
6	1.061 92.21	1.119 339.16	0.45 339.93	0.41 5.26	0.41 5.26	0.41 5.26
7	1.061 92.21	1.119 339.16	0.45 339.93	0.41 5.26	0.41 5.26	0.41 5.26
8	1.061 92.21	1.119 339.16	0.45 339.93	0.41 5.26	0.41 5.26	0.41 5.26
9	1.061 92.21	1.119 339.16	0.45 339.93	0.41 5.26	0.41 5.26	0.41 5.26
10	1.061 92.21	1.119 339.16	0.45 339.93	0.41 5.26	0.41 5.26	0.41 5.26

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 127 ALPHA-MCL = 6.0 POP RUN.PT 32.06  
 RUN 29 ALPHA-BAR = 2.0 O-COMP = 32169  
 POINT 9 SIGMA = -45. V-REF = 198.89  
 COMPUTED FREQUENCY = 15.46, N = .1221

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

SECTION

9

7

6

5

N CPREAL CPIMAG

1 -2.662 -7.344  
 2 -4.770 .511  
 3 .910 .556  
 4 .221 .532  
 5 .285 .134  
 6 .173 .176  
 7 .073 .237  
 8 .009 .030  
 9 .047 .045  
 10 .017 .093

SECTION

N CPREAL CPIMAG

1 -8.201 -13.343  
 2 -4.707 -2.164  
 3 .071 -1.049  
 4 .093 .049  
 5 .241 .121  
 6 .123 .162  
 7 .041 .073  
 8 .048 .073  
 9 .048 .073  
 10 .048 .073

SECTION

N CPREAL CPIMAG

1 -7.727 -10.119  
 2 -5.149 -1.085  
 3 -1.161 1.190  
 4 .198 .197  
 5 .199 .191  
 6 .143 .215  
 7 .000 .016  
 8 .050 .046  
 9 .043 .025  
 10 .015 .008

N CPREAL CPIMAG

1 -2.003 19.077  
 2 .184 3.349  
 3 .057 .777  
 4 .005 .193  
 5 .074 .202  
 6 .141 .079  
 7 .120 .116  
 8 .020 .070  
 9 .016 .014  
 10 .016 .016

N CPREAL CPIMAG

1 -2.003 19.077  
 2 .184 3.349  
 3 .057 .777  
 4 .005 .193  
 5 .074 .202  
 6 .141 .079  
 7 .120 .116  
 8 .020 .070  
 9 .016 .014  
 10 .016 .016

N CPREAL CPIMAG

1 -2.003 19.077  
 2 .184 3.349  
 3 .057 .777  
 4 .005 .193  
 5 .074 .202  
 6 .141 .079  
 7 .120 .116  
 8 .020 .070  
 9 .016 .014  
 10 .016 .016

N CPREAL CPIMAG

1 -2.003 19.077  
 2 .184 3.349  
 3 .057 .777  
 4 .005 .193  
 5 .074 .202  
 6 .141 .079  
 7 .120 .116  
 8 .020 .070  
 9 .016 .014  
 10 .016 .016

N CPREAL CPIMAG

1 -2.003 19.077  
 2 .184 3.349  
 3 .057 .777  
 4 .005 .193  
 5 .074 .202  
 6 .141 .079  
 7 .120 .116  
 8 .020 .070  
 9 .016 .014  
 10 .016 .016

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FILE - 147  ALPHA-MCL = 6.0  POP RUN-PT 29.06
RUN - 29  ALPHA-BAR = -45.0  O-COMP = 321.69
POINT 4  SIGMA = -2.5  V-REF = 198.89
      COMPUED FREQUENCY = 15.46, K = .1221
      C IMAGINARY

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
COMPUTED FREQUENCY = 15.461

BLADE NO. 3 4 5 6 7 9

X=062 SUCTION											
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1.684	-6.511	1	-4.901	-1.707	1	-4.333	2.299	1	-1.485	5.894
2	1.737	-1.392	2	.519	-0.072	2	.517	-1.180	2	.339	-1.180
3	1.751	-1.782	3	.133	-0.015	3	-0.030	-0.166	3	-0.166	.020
4	1.782	-1.143	4	.003	-0.030	4	-0.036	.007	4	.056	-0.075
5	1.456	-1.102	5	.030	-0.056	5	.016	-0.208	5	.025	.037
6	1.373	-1.029	6	-.030	-0.067	6	.030	-.009	6	.008	.002
7	1.029	-.045	7	.015	-0.049	7	-.003	-.000	7	-.013	.020
8	1.126	-.054	8	.009	-0.025	8	-.020	-.000	8	.002	.029
9	1.061	-.084	9	.007	-0.025	9	.011	-.000	9	.002	.003
10	1.045	-.063	10	-.007	-.029	10	.010	-.015	10	.017	.006

X=012 PRESSURE											
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	.422	6.295	1	6.007	-.427	1	5.056	-5.533	1	-1.219	-8.604
2	.504	2.460	2	-.076	-.733	2	-.221	-.021	2	-.077	.077
3	.100	1.800	3	-.039	-.015	3	-.032	.015	3	-.031	.086
4	.102	.028	4	-.018	-.021	4	-.034	-.022	4	-.038	-.054
5	.047	.048	5	.015	-.018	5	.014	-.038	5	-.045	-.019
6	.006	.017	6	-.015	.006	6	.000	-.009	6	-.032	.024
7	.011	.014	7	-.020	.018	7	.006	-.020	7	-.003	.029
8	-.009	.032	8	-.003	-.012	8	-.008	-.002	8	-.010	.006
9	.006	.002	9	.006	-.010	9	-.002	-.001	9	-.022	.006
10	.006	.002	10	.006	.010	10	.003	.001	10	.023	.014

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	SAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938
		N CPREAL	N CPIMAG	N CPREAL	N CPIMAG	N CPREAL	N CPIMAG
1	10	138	483	614	229	998	867
2	1	124	073	536	699	659	708
3	1	425	409	019	012	017	018
4	1	033	346	028	061	063	031
5	1	036	091	026	035	037	022
6	1	028	072	036	022	018	003
7	1	022	050	020	008	007	003
8	1	043	039	036	008	016	007
9	1	004	049	021	010	009	008
10	1	028	023	021	011	007	008

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 197 ALPHA-MCL = 6.0 PDP RUN-PT 29.06  
RUN 29 ALPHA-BAR = 2.0 O-COMP = 132169  
POINT V-REF = -45.0 V-REF = 132169  
COMPUTED FREQUENCY = 15.86, K = .221

FOURIER COEFFICIENTS, AMPLITUDE  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3  
X=005  
SUCTION

5  
N CP-MAG PHI  
7.811 160.07  
9.807 353.89  
1.073 238.77  
.315 115.22  
.162 40.91  
.243 342.96  
.033 373.55  
.092 312.92  
100.61

X=012  
SUCTION  
N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI  
18.260 192.02 123.55 97.09 19.182 123.55 97.09 123.55 97.09 123.55 97.09  
15.770 137.57 123.55 97.09 13.759 123.55 97.09 123.55 97.09 123.55 97.09  
2.683 137.57 123.55 97.09 1.759 123.55 97.09 123.55 97.09 123.55 97.09  
3.110 137.57 123.55 97.09 2.021 123.55 97.09 123.55 97.09 123.55 97.09  
2.279 137.57 123.55 97.09 1.062 123.55 97.09 123.55 97.09 123.55 97.09  
2.090 137.57 123.55 97.09 1.072 123.55 97.09 123.55 97.09 123.55 97.09  
0.016 137.57 123.55 97.09 0.019 123.55 97.09 123.55 97.09 123.55 97.09  
10.260 192.02 123.55 97.09 10.260 192.02 123.55 97.09 10.260 192.02 123.55 97.09  
15.770 137.57 123.55 97.09 15.770 137.57 123.55 97.09 15.770 137.57 123.55 97.09  
2.683 137.57 123.55 97.09 2.683 137.57 123.55 97.09 2.683 137.57 123.55 97.09  
3.110 137.57 123.55 97.09 3.110 137.57 123.55 97.09 3.110 137.57 123.55 97.09  
2.279 137.57 123.55 97.09 2.279 137.57 123.55 97.09 2.279 137.57 123.55 97.09  
2.090 137.57 123.55 97.09 2.090 137.57 123.55 97.09 2.090 137.57 123.55 97.09  
0.016 137.57 123.55 97.09 0.016 137.57 123.55 97.09 0.016 137.57 123.55 97.09

X=030  
SUCTION

5  
N CP-MAG PHI  
13.728 192.02  
1.622 123.55  
.405 115.22  
.019 40.91  
.050 342.96  
.017 373.55  
100.61

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 147 ALPHA-MCL = 6.0 POP RUN PT 29.06  
 RUN 29 ALPHA-BAR = 2.0 O-CREF = 32189  
 POINT 4 SIGMA = -45.0 V-REF = 198.89  
 FOURIER COEFFICIENTS, AMPLITUDE = 15.46, K = .1221  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
X=.062 SUCTION	1	6.725	189.50	1	5.190	150.09	1	4.233	120.05	1	4.905	152.05	1	5.114	151.82	1	4.275	150.81
	2	1.575	152.31	2	1.330	130.03	2	1.066	109.96	2	0.905	140.84	2	0.884	139.47	2	0.884	139.47
	3	1.469	126.03	3	1.030	99.91	3	0.643	89.91	3	0.366	69.85	3	0.265	69.85	3	0.066	29.80
	4	1.084	109.96	4	0.643	89.91	4	0.366	69.85	4	0.032	49.80	4	0.032	49.80	4	0.032	49.80
	5	0.386	89.91	5	0.029	29.85	5	0.032	49.80	5	0.032	49.80	5	0.032	49.80	5	0.032	49.80
	6	0.056	29.80	6	0.029	29.85	6	0.032	49.80	6	0.032	49.80	6	0.032	49.80	6	0.032	49.80
	7	0.056	29.80	7	0.030	30.00	7	0.032	49.80	7	0.032	49.80	7	0.032	49.80	7	0.032	49.80
	8	0.056	29.80	8	0.030	30.00	8	0.032	49.80	8	0.032	49.80	8	0.032	49.80	8	0.032	49.80
	9	0.056	29.80	9	0.030	30.00	9	0.032	49.80	9	0.032	49.80	9	0.032	49.80	9	0.032	49.80
	10	0.077	324.23	10	0.030	30.00	10	0.032	49.80	10	0.032	49.80	10	0.032	49.80	10	0.032	49.80
X=.012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	6.309	311.17	1	6.022	310.94	1	7.496	312.42	1	7.496	312.42	1	8.689	306.96	1	7.613	312.42
	2	5.561	115.99	2	5.776	115.99	2	7.222	175.67	2	7.222	175.67	2	5.501	298.85	2	5.501	298.85
	3	1.83	135.59	3	1.077	135.59	3	0.822	166.76	3	0.822	166.76	3	0.533	298.85	3	0.533	298.85
	4	1.08	179.88	4	0.044	179.88	4	0.039	213.05	4	0.039	213.05	4	0.103	298.85	4	0.103	298.85
	5	1.08	179.88	5	0.023	179.88	5	0.041	290.91	5	0.041	290.91	5	0.035	298.85	5	0.035	298.85
	6	0.018	17.85	6	0.023	17.85	6	0.009	89.91	6	0.009	89.91	6	0.022	153.30	6	0.022	153.30
	7	0.018	17.85	7	0.011	17.85	7	0.021	287.67	7	0.021	287.67	7	0.012	298.85	7	0.012	298.85
	8	0.032	194.96	8	0.027	194.96	8	0.012	230.58	8	0.012	230.58	8	0.012	298.85	8	0.012	298.85
	9	0.032	194.96	9	0.003	194.96	9	0.003	222.74	9	0.003	222.74	9	0.012	298.85	9	0.012	298.85
	10	0.006	111.34	10	0.012	111.34	10	0.003	322.74	10	0.003	322.74	10	0.012	298.85	10	0.012	298.85

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 0.062	W4 0.125	W5 0.250	W7 0.750	W8 0.875	W9 0.938		
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	12.429	147.46	1	10.393	155.87	1	1.573	339.33
2	1.484	151.40	2	1.361	148.26	2	1.573	339.33
3	1.484	151.40	3	1.361	148.26	3	1.573	339.33
4	1.484	151.40	4	1.361	148.26	4	1.573	339.33
5	1.484	151.40	5	1.361	148.26	5	1.573	339.33
6	1.484	151.40	6	1.361	148.26	6	1.573	339.33
7	1.484	151.40	7	1.361	148.26	7	1.573	339.33
8	1.484	151.40	8	1.361	148.26	8	1.573	339.33
9	1.484	151.40	9	1.361	148.26	9	1.573	339.33
10	1.484	151.40	10	1.361	148.26	10	1.573	339.33



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 149 ALPHA-MCL = 6.0 POP RUN.PI 29.08  
 RUN 29 ALPHA-BAR = 2.0 C-COMP = .32124  
 POINT 6 SIGMA = -.45 V-REF = 198.75  
 FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 5 6 7 9

XE=005  
 SUCTION

N	CPREAL	CPIMAG
1	-4.207	-7.578
2	-9.853	1.679
3	-1.893	1.004
4	-3.79	1.400
5	-3.81	1.139
6	-3.24	1.158
7	-3.84	1.033
8	-.035	-.032
9	-.030	-.036
10	-.030	-.030

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-9.119	-12.187	1	-16.855	15.072	1	-1.707	17.754	1	12.005	1.342
2	-1.660	-1.215	2	1.369	-.271	2	-.098	12.816	2	-.056	-1.979
3	-.059	-1.152	3	1.057	-.916	3	-.045	7.759	3	-.032	-.188
4	-.086	-.019	4	-.104	-.377	4	-.085	-.082	4	-.029	-.102
5	-.236	-.213	5	-.250	-.173	5	-.088	-.115	5	-.029	-.105
6	-.035	-.140	6	-.047	-.004	6	-.096	-.017	6	-.017	-.015
7	-.035	-.105	7	-.069	-.064	7	-.019	-.019	7	-.010	-.056
8	-.022	-.072	8	-.038	-.054	8	-.012	-.012	8	-.010	-.054
9	-.097	-.008	9	-.058	-.058	9	-.018	-.018	9	-.010	-.015
10	-.097	-.008	10	-.058	-.058	10	-.018	-.018	10	-.010	-.015

XE=030  
 SUCTION

N	CPREAL	CPIMAG
1	-8.071	-8.622
2	-9.532	1.681
3	-.774	1.110
4	-.086	1.154
5	-.196	1.283
6	-.012	1.045
7	-.011	1.031
8	-.015	1.015
9	-.051	1.015
10	-.051	1.015

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 149 ALPHA-MCL = 6.0 PDR RUN-PT 29.08  
 RUN 29 ALPHA-BAR = 2.0 Q-COMP = 32124  
 POINT 6 SIGMA = -45. V-MEF = 198.75  
 COMPUTED FREQUENCY = 19.97, K = .1507

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	.713	-5.388	1	-3.017	-4.283	1	-5.157	-1.213	1	-4.607	2.531	1	-1.885	9.832	1	3.366	1.138
	2	.470	-.615	2	.875	-.439	2	.035	.077	2	.049	-.036	2	-.123	-.184	2	.019	-.019
	3	-.679	-.326	3	-.238	1.185	3	-.125	-.079	3	.052	-.099	3	-.076	.100	3	-.048	-.103
	4	-.655	-.008	4	-.458	-.552	4	-.036	-.056	4	-.020	-.033	4	-.028	.076	4	-.026	-.024
	5	-.354	-.139	5	-.287	-.089	5	-.052	.015	5	-.015	-.038	5	-.016	-.041	5	-.005	-.025
	6	.090	-.229	6	-.049	.124	6	-.007	-.015	6	.006	-.004	6	-.025	.015	6	-.027	-.003
	7	.045	-.146	7	-.041	.052	7	.011	.006	7	.001	-.004	7	-.004	-.015	7	-.001	-.003
	8	-.057	-.070	8	-.017	-.023	8	.010	-.022	8	-.004	-.006	8	-.004	.004	8	-.001	-.003
	9	.024	-.101	9	-.047	-.023	9	.003	.010	9	-.024	-.008	9	-.019	.004	9	-.012	-.008
	10	.023	-.011	10	-.051	-.010	10	-.033	.010	10	-.004	-.008	10	-.019	.004	10	.012	.008
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	.249	6.395	1	5.254	-.330	1	5.250	-5.185	1	5.250	-5.185	1	-2.108	-7.740	1	-8.055	1.175
	2	-.126	.425	2	-.156	-.603	2	-.622	.099	2	-.676	.000	2	-.041	.136	2	-.019	-.068
	3	.144	.150	3	.016	.055	3	-.025	.010	3	-.025	.019	3	-.049	-.025	3	-.015	-.008
	4	-.068	.029	4	.015	-.001	4	-.019	-.007	4	-.025	.013	4	-.017	-.030	4	.005	-.009
	5	-.029	.049	5	.008	-.012	5	-.021	-.004	5	-.004	-.009	5	-.025	.045	5	-.010	-.023
	6	-.017	.017	6	-.003	-.007	6	-.001	-.001	6	.001	.013	6	-.025	.007	6	-.013	-.003
	7	-.030	-.030	7	-.022	-.001	7	.001	-.015	7	.001	.013	7	-.018	.007	7	.003	-.017
	8	-.036	-.040	8	-.001	-.003	8	.001	.015	8	.005	.013	8	-.019	.003	8	-.013	-.009
	9	-.030	-.040	9	-.012	-.003	9	.001	.015	9	.005	.013	9	-.019	.003	9	-.013	-.009
	10	-.060	.034	10	-.012	-.003	10	.001	.015	10	.005	.013	10	-.019	.003	10	-.013	-.009

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938		
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-9.870	7.065	1	-4.188	.139	1	-1.741	-.834
2	-1.192	.532	2	-.023	-.244	2	-.321	-.101
3	-.039	.405	3	-.024	.171	3	-.068	.113
4	-.006	.234	4	-.002	-.020	4	-.007	-.007
5	-.006	.091	5	-.015	-.013	5	-.024	-.020
6	-.029	-.005	6	-.030	-.032	6	-.005	-.006
7	-.003	-.009	7	.010	.024	7	-.000	-.002
8	-.011	-.027	8	.018	.001	8	-.000	-.002
9	-.057	-.001	9	.024	.001	9	-.011	-.001
10			10	.024	.006	10	-.011	-.003

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 149 ALPHA-MCL = 6.0 PDP RUN.PT 29.08  
 RUN 129 ALPHA-BAR = 2.0 C-COMP = .32124  
 POINT 6 SIGMA = -.45 V-REF = 198.75  
 COMPUTED FREQUENCY = 19.07, K = .1507

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

X=.005  
 SUCTION

N	CP-MAG	PHI
1	8.668	150.96
2	4.900	352.04
3	1.343	221.56
4	.551	46.53
5	.405	110.07
6	.360	334.01
7	.100	302.32
8	.063	50.07
9	.059	231.80
10	.042	44.73

X=.012  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	18.527	137.99	1	19.971	136.88	1	22.611	139.20	1	17.836	140.49
2	5.069	327.90	2	3.863	169.78	2	1.649	205.45	2	2.878	181.94
3	3.337	354.47	3	1.904	216.54	3	1.647	233.78	3	.741	224.51
4	4.59	301.47	4	.281	281.49	4	.382	262.45	4	.113	46.47
5	2.77	280.70	5	.503	99.80	5	.177	306.23	5	.211	111.35
6	2.25	283.01	6	.416	149.86	6	.260	164.66	6	.115	183.99
7	1.11	286.98	7	.152	170.96	7	.060	6.20	7	.103	293.84
8	.021	344.31	8	.156	63.87	8	.064	96.54	8	.062	107.61
9	.021	9.22	9	.070	192.32	9	.061	296.53	9	.075	144.59
10	.152	64.64	10	.072	54.10	10	.059	169.69	10	.023	231.40

X=.030  
 SUCTION

N	CP-MAG	PHI
1	11.810	136.89
2	4.603	169.91
3	1.851	204.71
4	.603	52.13
5	.344	104.67
6	.346	124.50
7	.043	164.50
8	.043	45.06
9	.021	135.89
10	.054	128.79

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 149 ALPHA-MCL = 6.0 POP RUN PT 29.08  
 RUN 29 ALPHA-BAR = 2.0 O-COMP = .32124  
 POINT 8 SIGMA = -45. V-REF = 198.75  
 COMPUTED FREQUENCY = 19.07, K = .1507

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
X=.062 SUCTION	1	5.435	142.53	1	5.239	144.84	1	5.298	148.24	1	5.256	151.22	1	5.186	156.31	1	3.554	153.67
	2	.774	142.58	2	.979	153.38	2	.058	123.13	2	.091	102.86	2	.221	126.14	2	.023	233.93
	3	.754	160.65	3	1.209	191.31	3	.146	256.54	3	.071	43.12	3	.105	207.16	3	.130	233.70
	4	.380	203.57	4	.300	232.68	4	.035	144.94	4	.025	142.21	4	.028	148.41	4	.028	26.77
	5	.246	201.41	5	.133	221.47	5	.061	130.88	5	.032	141.93	5	.047	148.24	5	.032	248.96
	6	.091	211.77	6	.063	221.37	6	.013	135.30	6	.007	112.93	6	.029	183.79	6	.025	248.96
	7	.091	230.77	7	.063	221.37	7	.013	135.30	7	.007	112.93	7	.029	183.79	7	.025	248.96
	8	.113	287.95	8	.047	265.36	8	.024	249.35	8	.007	235.62	8	.015	151.40	8	.011	217.95
	9	.028	65.86	9	.052	349.33	9	.034	72.71	9	.025	198.78	9	.019	250.35	9	.012	231.09
	10			10			10			10			10			10		309.35
X=.012 PRESSURE	1	6.400	312.77	1	5.265	311.40	1	5.265	311.40	1	6.704	309.34	1	8.022	299.77	1	8.056	313.76
	2	.443	196.46	2	.057	165.54	2	.057	165.54	2	.124	179.96	2	.142	180.84	2	.071	177.76
	3	.208	336.47	3	.018	214.62	3	.018	214.62	3	.032	152.76	3	.105	180.84	3	.071	151.35
	4	.057	165.55	4	.009	120.61	4	.009	120.61	4	.020	338.62	4	.026	175.47	4	.028	233.36
	5	.024	145.84	5	.012	273.48	5	.012	273.48	5	.066	211.16	5	.052	175.02	5	.028	233.36
	6	.035	11.53	6	.023	196.57	6	.023	196.57	6	.019	85.89	6	.019	20.99	6	.023	345.59
	7	.035	199.97	7	.015	148.55	7	.015	148.55	7	.019	85.89	7	.019	20.99	7	.023	345.59
	8	.050	197.92	8	.012	254.38	8	.012	254.38	8	.016	298.62	8	.011	279.93	8	.023	62.07
	9			9			9			9			9			9		62.07
	10			10			10			10			10			10		75.37

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3			W4			W5			W7			W9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	1	12.149	144.33	1	10.505	155.76	1	4.190	178.10	1	2.054	198.60	1	1.934	205.58
	2	.448	163.51	2	.431	125.23	2	.245	176.44	2	.104	271.54	2	.132	258.16
	3	.237	180.40	3	.262	213.73	3	.173	282.07	3	.139	271.54	3	.107	258.16
	4	.103	115.00	4	.079	301.37	4	.020	274.94	4	.004	244.36	4	.010	233.90
	5	.029	125.25	5	.021	372.42	5	.019	316.94	5	.036	134.01	5	.031	133.91
	6	.029	170.79	6	.021	56.42	6	.044	132.94	6	.020	222.72	6	.023	101.74
	7	.029	208.00	7	.021	1.37	7	.026	358.30	7	.011	268.16	7	.006	188.79
	8	.029	207.65	8	.021	185.39	8	.018	346.78	8	.011	268.16	8	.006	188.79
	9			9	.037	185.39	9	.025	346.78	9	.012	169.63	9	.011	176.58
	10			10			10			10			10		

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 139 ALPHA-MCL = 5.0 POP RUN.PT 28.05  
RUN 28 ALPHA-BAR = 2.0 O-CO-P = 31909  
POINT 2 SIGMA = 0. V-REF = 198.08  
COMPUTED FREQUENCY = 9.08, K = .0720

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
SUCTION

N	CPREAL	CPIMAG
1	-8.717	3.546
2	1.511	2.123
3	1.026	.529
4	.038	-.040
5	.110	.319
6	.110	-.099
7	.073	-.005
8	.009	-.116
9	.037	.028
10	.009	.062

X=.012  
SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-18.552	5.934	1	-12.793	2.049	1	-8.698	.654
2	-2.395	3.012	2	-.461	-1.830	2	-.056	-.682
3	-.113	.041	3	.797	-1.244	3	-.552	.131
4	.113	.410	4	-.003	.132	4	-.099	.153
5	-.200	-.200	5	.157	-.001	5	-.023	.064
6	-.266	.184	6	.089	.009	6	.021	-.057
7	.058	-.057	7	-.087	.053	7	.023	-.049
8	.069	-.057	8	.046	-.054	8	.023	-.022
9	.099	-.057	9	.058	.066	9	.023	.051
10	-.097	.091	10	-.050	.040	10	-.031	.053

X=.030  
SUCTION

N	CPREAL	CPIMAG
1	-8.327	3.318
2	-2.392	2.392
3	.849	-1.118
4	.146	-.027
5	-.010	.177
6	.103	-.051
7	.059	.092
8	-.039	-.013
9	.016	-.036
10	-.036	-.036

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 139 ALPHA-MCL = 6.0 PDP RUN-PT 28.05  
 RUN 28 ALPHA-BAR = 2.0 Q-COMP = 33.909  
 POINT 22 SIGMA = 0. V-REF = 196.08  
 COMPUTED FREQUENCY = 9.08, K = .0720

FOURIER COEFFICIENTS: REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.		3										4										5										6										7										9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
X=.062 SUCTION		N					CPREAL					CPIMAG					N					CPREAL					CPIMAG					N					CPREAL					CPIMAG					N					CPREAL					CPIMAG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
1	-3.760	1	1.157	1.424	1	-3.153	1	1.257	1.424	1	-3.858	1	1.610	1	-3.913	1	1.288	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069	1	1.115	1	-4.069

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062		W4 .125		W5 .250		W7 .750		W8 .875		W9 .938	
	N	CPREAL CPIMAG	N	CPREAL CPIMAG	N	CPREAL CPIMAG	N	CPREAL CPIMAG	N	CPREAL CPIMAG	N	CPREAL CPIMAG
1	-9.484	2.161	-8.827	1.719	-2.948	1.062	-2.948	1.062	-2.948	1.062	-2.948	1.062
2	-4.993	-.070	-5.008	-.877	-1.337	-.066	-1.337	-.066	-1.337	-.066	-1.337	-.066
3	-0.515	-.017	-.349	-.356	-.041	-.060	-.041	-.060	-.041	-.060	-.041	-.060
4	-0.025	-.083	-.157	-.332	-.074	-.017	-.074	-.017	-.074	-.017	-.074	-.017
5	-0.046	-.025	-.102	-.332	-.046	-.028	-.046	-.028	-.046	-.028	-.046	-.028
6	-0.046	-.025	-.047	-.332	-.036	-.046	-.036	-.046	-.036	-.046	-.036	-.046
7	-0.042	-.026	-.047	-.332	-.004	-.020	-.004	-.020	-.004	-.020	-.004	-.020
8	-0.010	-.038	-.047	-.085	-.005	-.015	-.005	-.015	-.005	-.015	-.005	-.015
9	-0.010	-.038	-.047	-.085	-.005	-.015	-.005	-.015	-.005	-.015	-.005	-.015
10	-0.010	-.038	-.047	-.085	-.005	-.015	-.005	-.015	-.005	-.015	-.005	-.015

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 139 ALPHA-MCL = 6.0 POP RUN-PT 28.05  
 RUN ALPHA-BAR = 2.0 O-COMP = .31909  
 POINT 22 SIGMA = 0. V-REF = 198.08  
 COMPUTED FREQUENCY = 9.09, K = .0720

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3  
 X=005  
 SUCTION

4  
 N CP-MAG PHI  
 1 9.410 157.87  
 2 2.605 54.56  
 3 .530 87.15  
 4 .055 313.46  
 5 .337 70.98  
 6 .148 318.21  
 7 .973 355.70  
 8 .116 274.63  
 9 .047 37.27  
 10 .053 81.95

X=012  
 SUCTION

5  
 N CP-MAG PHI  
 1 15.008 160.12  
 2 .881 54.79  
 3 .340 23.80  
 4 .302 356.70  
 5 .261 276.91  
 6 .319 158.08  
 7 .202 338.53  
 8 .095 301.81  
 9 .178 181.86  
 10 .036 180.08

X=010  
 SUCTION

6  
 N CP-MAG PHI  
 1 8.968 158.28  
 2 .284 226.75  
 3 .149 307.22  
 4 .177 10.56  
 5 .115 269.82  
 6 .109 333.87  
 7 .041 57.61  
 8 .021 197.65  
 9 .051 321.40  
 10 .051 225.43

9

7

6

5

4

3

7  
 N CP-MAG PHI  
 1 12.955 170.90  
 2 .833 355.85  
 3 .132 91.23  
 4 .131 359.76  
 5 .132 102.08  
 6 .071 104.70  
 7 .104 55.82  
 8 .064 141.65  
 9 .061 175.70  
 10 .061 267.12

8  
 N CP-MAG PHI  
 1 19.151 167.05  
 2 .340 136.96  
 3 .663 40.56  
 4 .111 351.53  
 5 .306 22.83  
 6 .235 275.66  
 7 .050 290.73  
 8 .157 124.15  
 9 .157 124.15  
 10 .157 124.15

9  
 N CP-MAG PHI  
 1 14.966 163.82  
 2 .204 229.52  
 3 .742 34.93  
 4 .154 12.46  
 5 .343 354.82  
 6 .118 18.10  
 7 .197 323.11  
 8 .092 16.95  
 9 .028 23.61  
 10 .028 23.61

10  
 N CP-MAG PHI  
 1 19.478 162.26  
 2 1.048 151.52  
 3 .425 115.78  
 4 .323 174.55  
 5 .069 248.24  
 6 .089 145.24  
 7 .199 127.42  
 8 .132 39.71  
 9 .132 359.31  
 10 .132 136.91

# MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 139 ALPHA-MCL = 6.0 POP RUN PT 28.05  
 RUN 138 ALPHA-BAR = 2.0 O-COMP = .31909  
 POINT 2 ALPHA-SIGMA = 0. V-REF = 198.08  
 COMPUTED FREQUENCY = 9.08, K = .0720  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	5	6	7	9
X=.062 SUCTION	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI
1	3.934 162.90 1	4.180 155.70 1	4.119 161.79 1	4.187 166.39 1	3.490 172.98 1
2	3.934 162.90 2	4.180 155.70 2	4.119 161.79 2	4.187 166.39 2	3.490 172.98 2
3	3.934 162.90 3	4.180 155.70 3	4.119 161.79 3	4.187 166.39 3	3.490 172.98 3
4	3.934 162.90 4	4.180 155.70 4	4.119 161.79 4	4.187 166.39 4	3.490 172.98 4
5	3.934 162.90 5	4.180 155.70 5	4.119 161.79 5	4.187 166.39 5	3.490 172.98 5
6	3.934 162.90 6	4.180 155.70 6	4.119 161.79 6	4.187 166.39 6	3.490 172.98 6
7	3.934 162.90 7	4.180 155.70 7	4.119 161.79 7	4.187 166.39 7	3.490 172.98 7
8	3.934 162.90 8	4.180 155.70 8	4.119 161.79 8	4.187 166.39 8	3.490 172.98 8
9	3.934 162.90 9	4.180 155.70 9	4.119 161.79 9	4.187 166.39 9	3.490 172.98 9
10	3.934 162.90 10	4.180 155.70 10	4.119 161.79 10	4.187 166.39 10	3.490 172.98 10
X=.012 PRESSURE	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI
1	5.564 345.10 1	4.286 345.43 1	4.976 351.82 1	5.671 348.66 1	7.711 2.22 1
2	5.564 345.10 2	4.286 345.43 2	4.976 351.82 2	5.671 348.66 2	7.711 2.22 2
3	5.564 345.10 3	4.286 345.43 3	4.976 351.82 3	5.671 348.66 3	7.711 2.22 3
4	5.564 345.10 4	4.286 345.43 4	4.976 351.82 4	5.671 348.66 4	7.711 2.22 4
5	5.564 345.10 5	4.286 345.43 5	4.976 351.82 5	5.671 348.66 5	7.711 2.22 5
6	5.564 345.10 6	4.286 345.43 6	4.976 351.82 6	5.671 348.66 6	7.711 2.22 6
7	5.564 345.10 7	4.286 345.43 7	4.976 351.82 7	5.671 348.66 7	7.711 2.22 7
8	5.564 345.10 8	4.286 345.43 8	4.976 351.82 8	5.671 348.66 8	7.711 2.22 8
9	5.564 345.10 9	4.286 345.43 9	4.976 351.82 9	5.671 348.66 9	7.711 2.22 9
10	5.564 345.10 10	4.286 345.43 10	4.976 351.82 10	5.671 348.66 10	7.711 2.22 10

## \*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062 N CP-MAG PHI	W4 .125 N CP-MAG PHI	W5 .250 N CP-MAG PHI	W7 .750 N CP-MAG PHI	W9 .938 N CP-MAG PHI
1	9.732 167.05 1	8.902 168.94 1	3.134 160.19 1	6.097 113.98 1	4.123 99.08 1
2	9.732 167.05 2	8.902 168.94 2	3.134 160.19 2	6.097 113.98 2	4.123 99.08 2
3	9.732 167.05 3	8.902 168.94 3	3.134 160.19 3	6.097 113.98 3	4.123 99.08 3
4	9.732 167.05 4	8.902 168.94 4	3.134 160.19 4	6.097 113.98 4	4.123 99.08 4
5	9.732 167.05 5	8.902 168.94 5	3.134 160.19 5	6.097 113.98 5	4.123 99.08 5
6	9.732 167.05 6	8.902 168.94 6	3.134 160.19 6	6.097 113.98 6	4.123 99.08 6
7	9.732 167.05 7	8.902 168.94 7	3.134 160.19 7	6.097 113.98 7	4.123 99.08 7
8	9.732 167.05 8	8.902 168.94 8	3.134 160.19 8	6.097 113.98 8	4.123 99.08 8
9	9.732 167.05 9	8.902 168.94 9	3.134 160.19 9	6.097 113.98 9	4.123 99.08 9
10	9.732 167.05 10	8.902 168.94 10	3.134 160.19 10	6.097 113.98 10	4.123 99.08 10



OCUT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 141 ALPHA-MCL = 6.0 POP RUN.PT 28.07  
RUN 28 ALPHA-BAR = 2.0 O-COMP = 32.82  
POINT 4 SIGMA = 0.0 V-REF = 199.88  
COMPUTED FREQUENCY = 15.43, N = .1213

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=.005  
SUCTION

9

7

6

5

4

3

N	CPREAL	CPIMAG
1	-7.160	2.792
2	1.320	1.646
3	-1.190	.522
4	-.003	-.108
5	.042	.066
6	-.031	-.006
7	.011	-.004
8	.016	.032
9	-.014	.027
10	-.013	.017

X=.012 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	15.524	6.557	1-11.683	4.137	1-11.632	2.626	1-17.318	2.915	1-11.806	1-11.806	1-11.806	1-11.806	1-11.806	1-11.806	1-11.806	1-11.806	1-11.806	1-11.806	1-11.806	1-11.806	1-11.806
2	2.529	2.483	2.688	3.193	2.528	-1.006	2.311	.311	.399	.399	.399	.399	.399	.399	.399	.399	.399	.399	.399	.399	
3	-.194	-.153	.185	-.334	-.926	-.642	-.903	.452	-.597	-.597	-.597	-.597	-.597	-.597	-.597	-.597	-.597	-.597	-.597	-.597	
4	-.269	.091	-.369	-.186	.525	.408	.242	.389	-.109	-.109	-.109	-.109	-.109	-.109	-.109	-.109	-.109	-.109	-.109	-.109	
5	.067	-.011	-.033	.030	.058	.080	.120	-.042	.152	.152	.152	.152	.152	.152	.152	.152	.152	.152	.152	.152	
6	-.111	.208	-.099	.199	.212	.165	.203	.174	-.011	-.011	-.011	-.011	-.011	-.011	-.011	-.011	-.011	-.011	-.011	-.011	
7	.005	.116	.169	.038	.005	.147	.004	.068	-.095	-.095	-.095	-.095	-.095	-.095	-.095	-.095	-.095	-.095	-.095	-.095	
8	-.029	.116	-.015	-.057	.007	.064	-.004	.071	-.028	-.028	-.028	-.028	-.028	-.028	-.028	-.028	-.028	-.028	-.028	-.028	
9	.082	-.010	-.045	.048	-.044	-.015	-.041	.056	.026	.026	.026	.026	.026	.026	.026	.026	.026	.026	.026	.026	
10	-.100	-.006	-.031	.027	-.038	-.026	-.069	-.013	-.055	-.055	-.055	-.055	-.055	-.055	-.055	-.055	-.055	-.055	-.055	-.055	

X=.030  
SUCTION

N	CPREAL	CPIMAG
1	-5.699	1.837
2	-.974	-1.572
3	.806	-.653
4	.079	.167
5	-.023	-.041
6	.062	.022
7	.016	.084
8	-.026	.019
9	-.034	.006
10	-.034	-.009

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 141 ALPHA-MCL = 5.0 POP RUN.PT 28.07  
 RUN 28 0-COMP = .32482  
 POINT 4 SIGMA = 0.  
 COMPUTED FREQUENCY = 15.43, K = .1213

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	5	6	7	9
X=0.062 SUCTION	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
	-2.891 .932 1 2 3 4 5 6 7 8 9 10	.758 .013 1 2 3 4 5 6 7 8 9 10	.808 .171 1 2 3 4 5 6 7 8 9 10	-.512 .021 1 2 3 4 5 6 7 8 9 10	-.3.140 .041 1 2 3 4 5 6 7 8 9 10
	.119 .431 .292 .085 .026 .016 .038 .013 .020 .016	.505 .022 .024 .030 .007 .015 .007 .015 .007 .016	.248 .031 .058 .029 .041 .025 .037 .003 .003 .003	.288 .031 .044 .021 .024 .018 .061 .000 .000 .000	.005 .041 .057 .020 .007 .001 .003 .003 .003 .003
	-.040 .037 .037 .022 .046 .025 .036 .003 .023 .023	-.018 .016 .002 .016 .003 .014 .003 .014 .003 .014	-.058 .013 .013 .013 .013 .013 .013 .013 .013 .013	-.027 .027 .027 .027 .027 .027 .027 .027 .027 .027	-.057 .057 .057 .057 .057 .057 .057 .057 .057 .057
	-.022 .025 .025 .025 .025 .025 .025 .025 .025 .025	-.013 .013 .013 .013 .013 .013 .013 .013 .013 .013	-.029 .029 .029 .029 .029 .029 .029 .029 .029 .029	-.021 .021 .021 .021 .021 .021 .021 .021 .021 .021	-.007 .007 .007 .007 .007 .007 .007 .007 .007 .007
	-.023 .023 .023 .023 .023 .023 .023 .023 .023 .023	-.020 .020 .020 .020 .020 .020 .020 .020 .020 .020	-.008 .008 .008 .008 .008 .008 .008 .008 .008 .008	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.012 .012 .012 .012 .012 .012 .012 .012 .012 .012
X=0.012 PRESSURE	N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
	4.531 -1.709 1 2 3 4 5 6 7 8 9 10	4.026 -.108 .046 .013 .019 .023 .017 .011 .017 .017	4.944 .018 .095 .028 .045 .016 .020 .013 .013 .013	5.521 .146 .084 .049 .031 .029 .024 .014 .023 .023	5.317 .112 .019 .070 .022 .022 .025 .031 .016 .016
	-.082 .123 .010 .046 .000 .025 .000 .014 .007 .007	-.049 .013 .019 .023 .023 .023 .023 .023 .023 .023	-.003 .003 .003 .003 .003 .003 .003 .003 .003 .003	-.009 .009 .009 .009 .009 .009 .009 .009 .009 .009	-.006 .006 .006 .006 .006 .006 .006 .006 .006 .006
	-.034 .034 .034 .034 .034 .034 .034 .034 .034 .034	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.003 .003 .003 .003 .003 .003 .003 .003 .003 .003	-.003 .003 .003 .003 .003 .003 .003 .003 .003 .003	-.003 .003 .003 .003 .003 .003 .003 .003 .003 .003
	-.010 .010 .010 .010 .010 .010 .010 .010 .010 .010	-.003 .003 .003 .003 .003 .003 .003 .003 .003 .003	-.003 .003 .003 .003 .003 .003 .003 .003 .003 .003	-.003 .003 .003 .003 .003 .003 .003 .003 .003 .003	-.003 .003 .003 .003 .003 .003 .003 .003 .003 .003
	-.008 .008 .008 .008 .008 .008 .008 .008 .008 .008	-.003 .003 .003 .003 .003 .003 .003 .003 .003 .003	-.003 .003 .003 .003 .003 .003 .003 .003 .003 .003	-.003 .003 .003 .003 .003 .003 .003 .003 .003 .003	-.003 .003 .003 .003 .003 .003 .003 .003 .003 .003
	-.008 .008 .008 .008 .008 .008 .008 .008 .008 .008	-.003 .003 .003 .003 .003 .003 .003 .003 .003 .003	-.003 .003 .003 .003 .003 .003 .003 .003 .003 .003	-.003 .003 .003 .003 .003 .003 .003 .003 .003 .003	-.003 .003 .003 .003 .003 .003 .003 .003 .003 .003

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W9 .938
N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
	-8.538 1.011 .068 .267 .125 .023 .049 .002 .007 .007	-7.753 1.011 .068 .267 .125 .023 .049 .002 .007 .007	-2.146 1.011 .068 .267 .125 .023 .049 .002 .007 .007	-.384 1.011 .068 .267 .125 .023 .049 .002 .007 .007	-.232 1.011 .068 .267 .125 .023 .049 .002 .007 .007
	-.172 .170 .125 .101 .088 .026 .024 .019 .019 .019	-.173 .173 .173 .173 .173 .173 .173 .173 .173 .173	-.087 .087 .087 .087 .087 .087 .087 .087 .087 .087	-.073 .073 .073 .073 .073 .073 .073 .073 .073 .073	-.069 .069 .069 .069 .069 .069 .069 .069 .069 .069
	-.024 .024 .024 .024 .024 .024 .024 .024 .024 .024	-.024 .024 .024 .024 .024 .024 .024 .024 .024 .024	-.024 .024 .024 .024 .024 .024 .024 .024 .024 .024	-.024 .024 .024 .024 .024 .024 .024 .024 .024 .024	-.024 .024 .024 .024 .024 .024 .024 .024 .024 .024
	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019
	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019
	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019
	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019
	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019
	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019	-.019 .019 .019 .019 .019 .019 .019 .019 .019 .019

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 141 ALPHA-MCL = 6.0 PDP RUN-PT 28.07  
 RUN 28 ALPHA-BAR = 2.0 O-COMP = 13482  
 POINT 24 SIGMA = 0. V-REF = 189.88  
 COMPUTED FREQUENCY = 15.43, K = .1213

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3  
 X=.005  
 SUCTION

9

7

6

5

3

N	CP-MAG	PHI
1	7.685	158.70
2	2.110	51.28
3	.555	110.00
4	.108	268.14
5	.078	57.64
6	.032	191.07
7	.015	340.71
8	.005	63.79
9	.021	119.12
10	.021	127.35

X=.012 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	16.852	157.10	1	11.925	167.28	1	17.562	170.45	1	11.836	175.87	1	6.793	180.99				
2	3.545	144.47	2	1.177	325.26	2	1.318	101.50	2	1.568	255.24	2	.576	262.99				
3	.284	218.16	3	1.145	327.97	3	1.010	151.42	3	.615	256.01	3	.482	266.59				
4	.098	350.52	4	.065	54.93	4	.455	341.08	4	.167	330.70	4	.149	99.09				
5	.015	118.06	5	.269	37.93	5	.135	40.48	5	.153	359.07	5	.010	150.33				
6	.015	170.16	6	.048	83.53	6	.268	29.96	6	.163	170.87	6	.026	138.85				
7	.083	353.24	7	.086	199.36	7	.071	86.54	7	.096	103.06	7	.040	116.02				
8	.100	183.35	8	.066	133.28	8	.071	235.05	8	.122	205.31	8	.028	159.23				
9			9	.041	139.29	9	.070	190.43	9	.071	219.47	9	.039	211.08				
10			10			10			10			10						

X=.030  
 SUCTION

N	CP-MAG	PHI
1	5.987	162.14
2	1.850	238.22
3	1.037	320.58
4	.184	64.78
5	.047	240.60
6	.066	79.27
7	.045	146.56
8	.034	167.67
9	.026	167.67
10	.035	195.54

MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 141 ALPHA-MCL = 6.0 PDP RUN-PT 28.07  
 RUN 28 ALPHA-BAR = 2.0 Q-COMP = 32482  
 POINT 4 SIGMA = 0. V-REF = 199.88  
 COMPUTED FREQUENCY = 15.43, K = .1213

FOURIER COEFFICIENTS, AMPLITUDE UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062						
SUCTION						
	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI					
1	3.038 162.114 1 2.247 160.28 1 3.119 164.99 1 3.210 171.09 1 3.513 178.48 1 3.157 186.09					
2	.447 74.500 2 .584 59.93 2 .273 65.22 2 .232 67.91 2 .289 86.10 2 .229 88.83					
3	.052 40.33 3 .088 21.62 3 .107 24.33 3 .067 358.46 3 .100 44.43 3 .066 48.15					
4	.063 214.51 4 .023 14.73 4 .149 202.77 4 .036 193.57 4 .034 154.12 4 .021 195.88					
5	.042 26.31 5 .029 56.44 5 .032 145.23 5 .016 109.81 5 .022 132.15 5 .013 138.16					
6	.027 144.83 6 .049 141.35 6 .071 148.32 6 .025 139.04 6 .024 147.11 6 .019 152.40					
7	.046 178.13 7 .015 333.33 7 .027 91.72 7 .043 292.89 7 .061 301.00 7 .026 318.72					
8	.029 32.76 8 .025 91.09 8 .012 9.55 8 .008 176.81 8 .024 179.02 8 .003 182.72					
9	.036 354.76 9 .015 156.89 9 .020 171.20 9 .008 176.81 9 .019 179.02 9 .014 209.27					
10	.027 149.16 10 .018 156.89 10 .020 171.20 10 .008 176.81 10 .019 179.02 10 .014 209.27					
X=.012						
PRESSURE						
	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI					
1	4.843 339.34 1 4.189 343.93 1 5.038 348.92 1 5.710 345.20 1 5.332 355.82 1 5.230 359.16					
2	.501 214.67 2 .219 240.44 2 .172 275.89 2 .146 282.15 2 .126 289.16 2 .109 295.16					
3	.148 156.54 3 .095 125.37 3 .028 185.75 3 .033 190.63 3 .040 195.16 3 .048 199.63					
4	.039 194.22 4 .015 129.54 4 .053 237.71 4 .033 243.33 4 .030 247.79 4 .023 251.56					
5	.057 233.03 5 .031 229.54 5 .048 237.71 5 .030 243.33 5 .024 247.79 5 .017 251.56					
6	.010 338.90 6 .031 239.42 6 .048 243.33 6 .030 247.79 6 .024 251.56 6 .017 255.82					
7	.064 336.76 7 .030 35.54 7 .017 10.80 7 .020 27.02 7 .024 30.77 7 .017 34.46					
8	.023 359.57 8 .030 35.54 8 .017 10.80 8 .020 27.02 8 .024 30.77 8 .017 34.46					
9	.016 118.35 9 .012 15.63 9 .015 27.02 9 .020 30.77 9 .024 34.46 9 .017 38.16					
10	.033 112.37 10 .017 15.63 10 .015 27.02 10 .020 30.77 10 .024 34.46 10 .017 38.16					
*** WALL PRESSURES, PER RADIAN ***						
WALL NO.	W3	W4	W5	W7	W8	W9
GAP FRACTION	.062	.125	.250	.750	.875	.938
	N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI N CP-MAG PHI					
1	8.597 173.25 1 7.773 175.84 1 2.150 176.78 1 .461 326.54 1 .551 335.10 1 .601 343.37					
2	.185 158.31 2 .557 151.89 2 .186 160.99 2 .273 167.58 2 .251 173.10 2 .246 177.30					
3	.284 142.97 3 .356 129.47 3 .090 130.99 3 .081 129.59 3 .095 133.52 3 .086 137.30					
4	.110 135.02 4 .062 129.30 4 .201 131.06 4 .082 131.12 4 .094 133.52 4 .016 137.30					
5	.127 130.32 5 .059 129.38 5 .342 132.03 5 .013 131.02 5 .014 133.52 5 .016 137.30					
6	.091 165.66 6 .009 108.71 6 .025 154.62 6 .008 157.07 6 .015 159.93 6 .009 163.85					
7	.056 162.60 7 .132 175.28 7 .053 170.50 7 .048 171.07 7 .049 173.77 7 .052 177.01					
8	.024 174.84 8 .038 178.70 8 .010 179.78 8 .012 183.63 8 .007 189.61 8 .012 194.64					
9	.020 199.02 9 .018 153.34 9 .009 139.96 9 .012 135.93 9 .007 131.96 9 .006 127.91					
10	.020 199.02 10 .018 153.34 10 .009 139.96 10 .012 135.93 10 .007 131.96 10 .006 127.91					

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 143 ALPHA-MCL = 6.0 POP PUN-PT 28.09  
 PUN 28 ALPHA-BAR = 2.0 O-COMP = .32289  
 POINT 6 SIGMA = 0.0 V-REF = 199.28  
 COMPUTED FREQUENCY = 19.04, K = .1501

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3  
 XZ:005  
 SUCTION

9

7

6

5

4

N	CPREAL	CPIMAG
1	-7.318	2.174
2	.846	1.499
3	-.508	.485
4	-.098	-.078
5	-.041	.028
6	.067	-.035
7	-.016	-.006
8	-.011	-.014
9	.008	.025
10	-.009	.017

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1-14	.856	6.227	1-12	.113	3.137	1-17	.847	2.449	1-12	.599	.423
2	2.142	1.347	2	1.899	3.188	2	1.355	.311	2	-.233	-1.498
3	-.555	-.267	3	-.024	-.149	3	-.070	.461	3	-.551	-.159
4	-.194	-.239	4	-.030	-.182	4	-.445	.389	4	.033	-.109
5	-.173	.043	5	-.076	-.126	5	-.037	.024	5	-.024	.030
6	-.061	.001	6	-.139	-.064	6	-.172	.060	6	-.006	.033
7	-.076	-.006	7	.040	-.037	7	-.045	-.085	7	-.004	-.029
8	.102	-.032	8	.015	.050	8	.038	-.023	8	.033	-.070
9	.072	-.062	9	.025	.004	9	.045	-.011	9	.003	.004
10	-.000	.195	10	-.004	.004	10	-.014	-.011	10	-.020	.004

XZ:030  
 SUCTION

N	CPREAL	CPIMAG
1	-5.488	1.145
2	-.599	-.521
3	.873	.316
4	.221	.050
5	-.117	-.046
6	-.024	.014
7	.032	-.006
8	.002	.011
9	.014	.012
10	-.003	.012

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 143 ALPHA-MCL = 6.0 POP RUN-PT 28.09  
 RUN 28 ALPHA-BAR = 2.0 Q-COMP = .32289  
 POINT 6 SIGMA = 0.0 V-REF = 199.28  
 COMPUTED FREQUENCY = 19.04, K = .1501

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
X=0.02 SUCTION	1	-3.003	.907	1	-2.374	.470	1	-3.386	.486	1	-3.627	.226	1	-3.996	-.221	1	-3.727	-.615
	2	-.171	.424	2	-.211	.503	2	-.060	.245	2	-.024	.268	2	-.003	.329	2	-.051	.237
	3	-.061	.021	3	-.060	.015	3	.008	-.075	3	-.004	-.027	3	-.026	-.026	3	-.017	-.012
	4	.036	.017	4	-.023	.014	4	-.009	-.030	4	.025	-.004	4	-.017	.041	4	.000	-.006
	5	.039	.017	5	-.023	.004	5	-.028	-.032	5	.003	-.002	5	-.006	.025	5	.000	.007
	6	.008	-.033	6	-.039	-.010	6	-.028	.007	6	.012	-.000	6	.006	.000	6	.000	.011
	7	-.057	-.022	7	-.004	-.009	7	-.010	-.018	7	.015	-.024	7	-.030	-.023	7	-.018	.013
	8	.013	-.017	8	-.002	-.010	8	-.010	-.006	8	.008	-.004	8	-.002	-.029	8	.009	-.026
	9	.032	.026	9	.014	.014	9	.017	.021	9	.008	.001	9	-.016	.009	9	.001	-.009
	10	-.038	.097	10	-.007	.008	10	-.011	.021	10	.011	.001	10	-.014	.029	10	-.001	.006
X=0.12 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	3.778	-1.558	1	3.637	-1.072	1	3.637	-1.072	1	4.619	-.944	1	5.111	-1.658	1	5.008	-.593
	2	-.391	-.046	2	-.077	.175	2	-.040	.021	2	-.012	-.261	2	.045	-.041	2	-.008	-.296
	3	-.039	.113	3	.018	.021	3	.016	.009	3	-.005	-.016	3	.010	.022	3	-.051	-.033
	4	.054	-.037	4	.016	.004	4	.024	.004	4	.015	-.017	4	.001	-.022	4	-.026	.000
	5	-.053	.037	5	.024	.001	5	.024	.001	5	.002	.006	5	.028	.018	5	.025	-.001
	6	.007	.011	6	-.011	-.001	6	-.011	-.001	6	.002	-.006	6	-.006	-.007	6	.016	-.006
	7	.039	.011	7	-.011	-.001	7	-.011	-.001	7	.002	-.006	7	-.006	-.012	7	-.008	-.006
	8	-.004	-.010	8	-.002	-.002	8	-.002	-.002	8	.005	-.000	8	-.009	.009	8	-.008	-.005
	9	-.032	.041	9	-.002	.002	9	-.002	.002	9	.005	-.000	9	-.009	.013	9	-.008	-.005
	10	.017	-.066	10	.001	-.012	10	.001	-.012	10	-.007	.006	10	.008	-.013	10	-.003	.007

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	.062			.125			.250			.750			.875			.938		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	-9.099	.688	1	-8.354	.254	1	-2.753	-.176	1	-.242	.494	1	-.115	.477	1	.062	.495
	2	-.275	.088	2	-.718	.017	2	-.061	-.013	2	-.019	.251	2	-.009	.235	2	-.005	.227
	3	-.017	.280	3	-.015	.306	3	.003	-.005	3	.015	-.030	3	-.019	-.028	3	-.014	-.031
	4	-.043	.017	4	.018	-.033	4	.004	-.007	4	.008	.016	4	.004	-.020	4	.026	.006
	5	-.016	.049	5	.049	.016	5	.020	-.002	5	.021	-.008	5	.026	.012	5	.024	.003
	6	.004	-.004	6	.016	-.010	6	-.016	.002	6	.016	.002	6	.016	.003	6	.016	.002
	7	-.004	.004	7	.040	-.007	7	-.016	-.027	7	.003	-.020	7	-.015	.003	7	-.008	-.027
	8	-.012	.004	8	.012	.026	8	.013	.006	8	.002	.003	8	.007	.003	8	.003	.006
	9	-.004	-.004	9	.012	.025	9	.013	.011	9	.002	.007	9	.003	.006	9	.003	.006
	10	.013	-.004	10	-.005	.025	10	.004	.011	10	.002	.007	10	.005	.006	10	-.001	.004

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 143 ALPHA-MCL = 6.0 POP RUN.PI 28.09  
 RUN 28 ALPHA-BAR = 2.0 O-CUMP = .32289  
 POINT 6 SIGMA = 0.0 V-REF = .19928  
 COMPUTED FREQUENCY = 19.04, K = .1501

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

N	CP-MAG	PHI
1	7.614	163.45
2	1.722	160.56
3	.703	136.32
4	.125	321.23
5	.050	145.40
6	.076	332.85
7	.017	200.96
8	.018	211.66
9	.026	77.15
10	.020	118.28

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	16.108	157.26	1	12.512	165.48	1	18.014	172.19	1	12.606	178.08
2	2.764	39.40	2	3.711	59.22	2	1.339	113.51	2	1.516	261.17
3	.308	129.08	3	.151	260.60	3	1.074	154.59	3	.573	341.88
4	.178	113.39	4	.147	239.04	4	.591	141.11	4	.114	73.02
5	.091	178.88	5	.153	155.37	5	.044	147.49	5	.038	52.13
6	.077	194.20	6	.075	57.50	6	.082	19.28	6	.040	98.62
7	.107	17.58	7	.038	286.27	7	.083	269.57	7	.070	151.99
8	.095	318.95	8	.056	63.67	8	.036	302.62	8	.030	261.76
9	.195	90.05	9	.006	131.71	9	.018	320.73	9	.033	354.85
10			10			10			10	.073	100.09

X=.012  
 SUCTION

N	CP-MAG	PHI
1	5.606	168.21
2	1.704	249.41
3	.386	55.05
4	.127	157.01
5	.052	243.04
6	.035	244.02
7	.007	259.02
8	.019	159.51
9	.012	104.34
10		

X=.030  
 SUCTION

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 143 ALPHA-MCL = 6.0 POP RUN-PI 28.09  
 RUN 28 ALPHA-BAR = 2.0 O-COMP = .32289  
 POINT 6 SIGMA = 0. V-REF = 199.28  
 COMPUTED FREQUENCY = 19.04, K = .1501  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
XZ=062 SUCTION	1	3.137	163.20	1	2.420	168.79	1	3.421	171.83	1	3.634	176.44	1	4.002	183.16	1	3.778	189.37
	2	.457	68.04	2	.546	67.21	2	.253	176.26	2	.269	195.15	2	.329	190.48	2	.242	103.22
	3	.064	199.45	3	.062	165.94	3	.076	275.71	3	.028	260.89	3	.039	228.52	3	.018	235.58
	4	.057	12.95	4	.070	11.51	4	.031	252.73	4	.025	8.50	4	.050	124.39	4	.007	92.38
	5	.043	22.98	5	.023	170.13	5	.032	274.74	5	.003	326.75	5	.030	124.39	5	.007	92.38
	6	.009	338.27	6	.040	345.80	6	.028	166.06	6	.012	359.74	6	.006	143.36	6	.022	245.68
	7	.061	300.90	7	.010	243.45	7	.020	119.06	7	.029	168.87	7	.029	143.36	7	.022	245.68
	8	.021	307.40	8	.010	278.89	8	.012	21.91	8	.009	302.32	8	.018	174.89	8	.028	289.24
	9	.096	344.40	9	.020	45.25	9	.020	30.68	9	.011	24.77	9	.032	29.89	9	.009	82.94
	10	.104	111.41	10	.011	130.65	10	.024	117.39	10	.011	7.45	10	.016	115.41	10	.006	101.64
XZ=012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	4.087	338.59	1	3.792	343.58	1	4.715	348.45	1	5.373	342.03	1	5.043	353.21	1	5.043	353.21
	2	.394	186.67	2	.191	246.19	2	.043	267.48	2	.061	317.43	2	.246	268.11	2	.060	268.11
	3	.119	109.26	3	.040	178.91	3	.017	240.27	3	.022	272.61	3	.022	272.61	3	.025	272.61
	4	.055	350.96	4	.028	49.49	4	.023	108.76	4	.013	310.31	4	.013	310.31	4	.013	310.31
	5	.065	214.99	5	.018	30.78	5	.013	174.54	5	.006	110.59	5	.010	228.67	5	.010	228.67
	6	.038	79.25	6	.024	183.03	6	.015	201.42	6	.009	182.28	6	.010	201.42	6	.008	182.28
	7	.041	16.27	7	.018	223.30	7	.009	139.25	7	.009	139.25	7	.016	301.66	7	.008	115.54
	8	.011	246.47	8	.002	223.30	8	.009	139.25	8	.009	139.25	8	.016	301.66	8	.008	115.54
	9	.052	127.71	9	.012	276.03	9	.009	139.25	9	.009	139.25	9	.016	301.66	9	.008	115.54
	10	.068	284.18	10	.012	276.03	10	.009	139.25	10	.009	139.25	10	.016	301.66	10	.008	115.54

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3			W4			W5			W7			W8			W9		
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	9	.124	175.79	1	.358	178.26	1	2.759	183.67	1	.550	243.88	1	.491	256.45	1	.499	263.48
	2	.289	162.34	2	.305	243.20	2	.185	185.38	2	.252	243.88	2	.235	236.93	2	.237	245.23
	3	.352	170.64	3	.318	178.67	3	.035	192.05	3	.049	217.50	3	.034	236.50	3	.034	245.23
	4	.144	86.46	4	.306	267.12	4	.035	352.80	4	.022	319.92	4	.013	38.80	4	.005	329.49
	5	.054	48.05	5	.051	298.98	5	.021	289.81	5	.023	319.92	5	.013	287.04	5	.005	329.49
	6	.054	183.83	6	.019	210.76	6	.016	186.18	6	.023	172.52	6	.016	170.47	6	.016	172.52
	7	.036	289.62	7	.041	350.15	7	.014	229.42	7	.020	278.91	7	.026	286.40	7	.026	286.40
	8	.004	173.47	8	.028	65.75	8	.014	24.11	8	.004	49.66	8	.007	142.58	8	.007	142.58
	9	.014	343.83	9	.026	101.75	9	.011	69.44	9	.008	71.92	9	.007	142.58	9	.008	142.58
	10	.014	343.83	10	.026	101.75	10	.011	69.44	10	.008	71.92	10	.007	142.58	10	.008	142.58



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 151 ALPHA-MCL = 6.0 POP RUN.PI 30.02  
 RUN 30 ALPHA-BAR = 2.0 Q-COMP = .32556  
 POINT 32 ALPHA-SIGMA = .45 V-REF = 200.09  
 COMPUTED FREQUENCY = 9.05, K = .0710

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\* BLADE PRESSURES, PER RADIAN \*\*

BLADE NO.

X=.005  
 SUCTION

3	4	5	6	7	9
N	N	N	N	N	N
CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
1 -3.367 9.095	1 -3.367 9.095	1 -3.367 9.095	1 -3.367 9.095	1 -3.367 9.095	1 -3.367 9.095
2 -3.744 -3.276	2 -3.744 -3.276	2 -3.744 -3.276	2 -3.744 -3.276	2 -3.744 -3.276	2 -3.744 -3.276
3 -.528 -.077	3 -.528 -.077	3 -.528 -.077	3 -.528 -.077	3 -.528 -.077	3 -.528 -.077
4 -.255 .250	4 -.255 .250	4 -.255 .250	4 -.255 .250	4 -.255 .250	4 -.255 .250
5 -.662 -.428	5 -.662 -.428	5 -.662 -.428	5 -.662 -.428	5 -.662 -.428	5 -.662 -.428
6 -.197 -.322	6 -.197 -.322	6 -.197 -.322	6 -.197 -.322	6 -.197 -.322	6 -.197 -.322
7 -.056 -.132	7 -.056 -.132	7 -.056 -.132	7 -.056 -.132	7 -.056 -.132	7 -.056 -.132
8 -.029 -.054	8 -.029 -.054	8 -.029 -.054	8 -.029 -.054	8 -.029 -.054	8 -.029 -.054
9	9	9	9	9	9
10	10	10	10	10	10

X=.012  
 SUCTION

3	4	5	6	7	9
N	N	N	N	N	N
CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
1 6.932 16.765	1 6.932 16.765	1 6.932 16.765	1 6.932 16.765	1 6.932 16.765	1 6.932 16.765
2 -2.513 -3.112	2 -2.513 -3.112	2 -2.513 -3.112	2 -2.513 -3.112	2 -2.513 -3.112	2 -2.513 -3.112
3 -1.629 -.084	3 -1.629 -.084	3 -1.629 -.084	3 -1.629 -.084	3 -1.629 -.084	3 -1.629 -.084
4 -.527 .313	4 -.527 .313	4 -.527 .313	4 -.527 .313	4 -.527 .313	4 -.527 .313
5 -.275 -.268	5 -.275 -.268	5 -.275 -.268	5 -.275 -.268	5 -.275 -.268	5 -.275 -.268
6 -.170 -.225	6 -.170 -.225	6 -.170 -.225	6 -.170 -.225	6 -.170 -.225	6 -.170 -.225
7 -.042 -.132	7 -.042 -.132	7 -.042 -.132	7 -.042 -.132	7 -.042 -.132	7 -.042 -.132
8 -.126 -.051	8 -.126 -.051	8 -.126 -.051	8 -.126 -.051	8 -.126 -.051	8 -.126 -.051
9	9	9	9	9	9
10	10	10	10	10	10

X=.030  
 SUCTION

3	4	5	6	7	9
N	N	N	N	N	N
CPREAL	CPREAL	CPREAL	CPREAL	CPREAL	CPREAL
CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG	CPIMAG
1 -4.574 10.889	1 -4.574 10.889	1 -4.574 10.889	1 -4.574 10.889	1 -4.574 10.889	1 -4.574 10.889
2 -3.089 3.350	2 -3.089 3.350	2 -3.089 3.350	2 -3.089 3.350	2 -3.089 3.350	2 -3.089 3.350
3 -1.643 .371	3 -1.643 .371	3 -1.643 .371	3 -1.643 .371	3 -1.643 .371	3 -1.643 .371
4 .326 .311	4 .326 .311	4 .326 .311	4 .326 .311	4 .326 .311	4 .326 .311
5 .604 .163	5 .604 .163	5 .604 .163	5 .604 .163	5 .604 .163	5 .604 .163
6 .208 .026	6 .208 .026	6 .208 .026	6 .208 .026	6 .208 .026	6 .208 .026
7 .014 .016	7 .014 .016	7 .014 .016	7 .014 .016	7 .014 .016	7 .014 .016
8 -.035 .003	8 -.035 .003	8 -.035 .003	8 -.035 .003	8 -.035 .003	8 -.035 .003
9 -.052 -.005	9 -.052 -.005	9 -.052 -.005	9 -.052 -.005	9 -.052 -.005	9 -.052 -.005
10 -.046 -.006	10 -.046 -.006	10 -.046 -.006	10 -.046 -.006	10 -.046 -.006	10 -.046 -.006

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 151 ALPHA-MCL = 6.0 POP RUN PT 30.02  
 RUN 30 ALPHA-BAR = 2.0 O-COMP = .32556  
 POINT 2 SIGMA = 45. V-REF = 200.09  
 COMPUTED FREQUENCY = 9.05, K = .0710

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9						
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	1.592	3.020	1	-1.803	4.567	1	-5.178	2.281	1	-6.024	-1.529
2	2	-.135	-.184	2	-.387	.629	2	-.258	.309	2	-.136	-.208
3	3	-.383	-.273	3	-1.092	.132	3	-.238	.235	3	-.284	-.288
4	4	-.053	-.004	4	-.690	.634	4	-.071	-.034	4	-.022	-.036
5	5	-.087	-.022	5	-.280	-.068	5	-.043	-.029	5	-.021	-.074
6	6	-.083	-.048	6	-.129	-.081	6	-.147	-.023	6	-.092	-.077
7	7	-.003	-.040	7	-.019	.133	7	-.022	-.071	7	.013	.014
8	8	-.021	.617	8	-.027	.055	8	.008	-.000	8	.019	.000
9	9	-.007	.027	9	-.024	.017	9	.009	-.045	9	-.001	-.023
10	10	-.002	.027	10	-.024	.017	10	.012	.045	10	-.001	-.023
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	-1.824	-5.452	1	5.054	-1.744	1	5.829	3.065	1	3.206	7.558
2	2	.308	.509	2	-.468	-.656	2	.747	-.498	2	.010	-.387
3	3	-.246	-.233	3	-.314	-.259	3	-.291	-.274	3	-.391	-.298
4	4	-.014	.005	4	-.044	.036	4	-.042	.019	4	-.108	.053
5	5	-.018	-.003	5	-.023	.018	5	-.035	.003	5	-.077	.067
6	6	-.067	-.067	6	-.069	-.067	6	-.067	-.058	6	-.077	.106
7	7	-.190	.017	7	-.082	-.007	7	.025	-.005	7	.011	-.008
8	8	-.011	.036	8	.015	.031	8	.011	.013	8	.010	-.008
9	9	-.029	.038	9	-.020	.009	9	.001	.019	9	-.005	-.007
10	10	.016	-.020	10	-.002	.005	10	-.028	.004	10	-.039	.022

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938		
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-13.541	-4.055	1	-11.589	-2.644	1	-1.931	.503
2	1.074	-.618	2	-.635	-.848	2	-.019	.112
3	-.579	-.550	3	-1.053	-.757	3	-.048	-.385
4	-.110	.305	4	.208	-.369	4	-.048	-.022
5	-.175	-.167	5	.017	-.068	5	-.048	.017
6	-.159	-.049	6	-.155	-.060	6	-.048	-.006
7	-.009	-.011	7	.143	.031	7	.023	.077
8	-.010	.085	8	.105	.135	8	.010	.077
9	-.062	-.037	9	-.017	.046	9	-.028	.011
10	.040	.017	10	-.053	.009	10	-.014	.023

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 151 ALPHA-MCL = 6.0 POP RUN.PT 30.02  
 RUN 30 ALPHA-BAR = 2.0 O-COMP = .32556  
 POINT 2 SIGMA = 45. V-REF = 200.09  
 COMPUTED FREQUENCY = 9.05, K = .0710

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

XE:005  
 SUCTION

9

7

6

5

4

3

XE:012  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	18.142	202.54	1	14.172	204.64	1	21.167	205.32	1	20.710	196.72	1	19.460	192.20			
2	4.000	141.08	2	3.649	143.44	2	3.276	324.12	2	3.513	307.31	2	2.106	302.19			
3	1.919	252.76	3	1.556	242.76	3	1.038	71.10	3	1.729	75.11	3	.245	80.29			
4	.613	104.30	4	.856	198.02	4	.254	8.50	4	.337	357.13	4	.098	375.97			
5	.324	45.69	5	.729	284.56	5	.934	135.95	5	.149	391.93	5	.367	375.55			
6	.225	89.98	6	.508	230.72	6	.781	247.16	6	.102	260.74	6	.304	162.74			
7	.139	91.74	7	.394	269.96	7	.221	295.80	7	.088	132.31	7	.041	306.73			
8	.136	62.47	8	.237	194.05	8	.068	61.61	8	.075	127.81	8	.105	150.01			
9			9	.085	308.64	9	.085	307.59	9	.086	213.52	9	.080	321.87			
10			10			10			10	.121	286.09	10	.024	5.86			

XE:030  
 SUCTION

N	CP-MAG	PHI
1	11.810	202.79
2	4.409	314.46
3	1.680	77.77
4	.334	12.26
5	.264	117.20
6	.030	218.05
7	.038	332.53
8	.052	155.85
9	.080	267.18
10		54.73

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 151 ALPHA-MCL = 6.0 PDP RUN-PT 30.02  
 PUN 130 ALPHA-BAR = 2.0 O-COMP = .32556  
 POINT 2 ALPHA = 45. V-REF = 200.09  
 COMPUTED FREQUENCY = 9.05, K = .0710

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	3.414	197.21	1	4.910	201.54	1	5.658	201.22	1	6.215	194.29	1	6.529	187.16	1	4.645	181.08
	2	.229	143.73	2	.738	301.61	2	.342	140.05	2	.248	123.27	2	.074	217.73	2	.158	191.59
	3	.471	260.38	3	1.100	83.13	3	.079	26.05	3	.040	252.68	3	.060	150.29	3	.027	201.59
	4	.053	355.56	4	.691	177.22	4	.055	83.07	4	.119	252.68	4	.138	318.45	4	.088	277.14
	5	.125	241.90	5	.268	128.57	5	.150	101.14	5	.075	218.63	5	.036	287.77	5	.108	135.63
	6	.049	117.58	6	.083	346.83	6	.032	180.55	6	.024	121.25	6	.082	6.11	6	.019	135.63
	7	.013	117.98	7	.021	90.87	7	.009	41.93	7	.023	180.21	7	.020	86.90	7	.067	189.98
	8	.027	246.35	8	.029	206.45	8	.046	165.05	8	.023	219.21	8	.009	216.84	8	.027	98.07
	10		3.62	10		325.00	10			10		88.18	10		266.35	10		277.35
X=.012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	5.749	26.50	1	5.346	25.97	1	6.586	27.74	1	8.210	22.01	1	8.596	28.12	1	8.596	28.12
	2	.595	328.82	2	.806	324.52	2	.890	326.30	2	.491	350.49	2	.503	313.68	2	.503	313.68
	3	.339	268.44	3	.407	320.47	3	.400	323.25	3	.121	333.12	3	.072	201.60	3	.072	201.60
	4	.014	141.19	4	.057	320.18	4	.035	156.14	4	.056	333.81	4	.102	201.60	4	.102	201.60
	5	.039	148.86	5	.029	125.43	5	.089	328.99	5	.111	339.23	5	.054	157.07	5	.054	157.07
	6	.172	291.56	6	.033	125.42	6	.026	348.52	6	.012	322.62	6	.039	157.07	6	.039	157.07
	7	.059	241.86	7	.034	64.42	7	.017	49.03	7	.012	323.41	7	.011	98.19	7	.011	98.19
	8	.037	72.09	8	.021	200.69	8	.019	87.19	8	.017	61.25	8	.012	265.09	8	.012	265.09
	9	.048	261.89	9	.005	202.99	9	.029	171.93	9	.045		9	.011	98.19	9	.011	98.19
	10	.027	222.58	10			10			10			10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3	W4	W5	W7	W9									
N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	14.135	196.67	1	11.887	192.85	1	5.057	195.07	1	2.140	168.93	1	1.996	165.39
2	1.239	330.07	2	1.060	306.82	2	.070	100.25	2	.181	102.4	2	.113	197.87
3	.325	223.51	3	1.297	215.70	3	.599	246.94	3	.562	102.4	3	.562	223.26
4	.166	109.82	4	.424	279.43	4	.034	185.35	4	.055	120.4	4	.049	204.75
5	.242	223.77	5	.025	313.95	5	.022	161.46	5	.161	168.93	5	.161	223.26
6	.014	197.22	6	.146	125.07	6	.025	358.08	6	.028	120.4	6	.028	13.88
7	.085	96.80	7	.170	127.87	7	.090	129.15	7	.070	120.4	7	.070	82.55
8	.044	210.93	8	.049	250.24	8	.028	239.57	8	.026	120.4	8	.026	202.25
9			9			9			9			9		
10			10			10			10			10		

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 153 ALPHA-MCL = 6.0 PDP RUN-PT 30.04  
 RUN 30 ALPHA-BAR = 2.0 Q-COMP = .32639  
 POINT 4 SIGMA = .45 V-REF = 200.35  
 COMPUTED FREQUENCY = 15.45, K = .1211

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XZ-005  
 SUCTION

N CPREAL CPIMAG  
 1 -2.310 9.128  
 2 3.127 -4.572  
 3 -.549 .577  
 4 .324 -.223  
 5 .569 .170  
 6 -.443 .070  
 7 -.019 .373  
 8 .053 .063  
 9 -.015 .005  
 10 .049 .060

XZ-012  
 SUCTION

N CPREAL CPIMAG  
 1 7.441 16.074  
 2 -2.344 -3.234  
 3 -1.518 .055  
 4 .362 .319  
 5 -.416 .073  
 6 .044 .182  
 7 .075 .117  
 8 .061 .070  
 9 -.062 .070  
 10 -.034 .097

XZ-030  
 SUCTION

N CPREAL CPIMAG  
 1 -3.826 11.291  
 2 -2.892 3.164  
 3 -1.342 .595  
 4 .347 .062  
 5 .617 .139  
 6 .030 .002  
 7 .003 .041  
 8 .003 .043  
 9 .003 .043  
 10 .021 .042

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N CPREAL CPIMAG  
 1 -18.651 8.681  
 2 -2.091 -2.760  
 3 -.801 -1.148  
 4 -.967 .135  
 5 -.323 .654  
 6 .347 .412  
 7 -.090 .101  
 8 .013 .147  
 9 -.049 .077  
 10 .031 .077

N CPREAL CPIMAG  
 1 -2.091 8.681  
 2 -2.091 -2.760  
 3 -.801 -1.148  
 4 -.967 .135  
 5 -.323 .654  
 6 .347 .412  
 7 -.090 .101  
 8 .013 .147  
 9 -.049 .077  
 10 .031 .077

N CPREAL CPIMAG  
 1 -2.091 8.681  
 2 -2.091 -2.760  
 3 -.801 -1.148  
 4 -.967 .135  
 5 -.323 .654  
 6 .347 .412  
 7 -.090 .101  
 8 .013 .147  
 9 -.049 .077  
 10 .031 .077

N CPREAL CPIMAG  
 1 -2.091 8.681  
 2 -2.091 -2.760  
 3 -.801 -1.148  
 4 -.967 .135  
 5 -.323 .654  
 6 .347 .412  
 7 -.090 .101  
 8 .013 .147  
 9 -.049 .077  
 10 .031 .077

```

FILE 153      ALPHA-MCL = 6.0      POP RUN.PT  30.04
RUN      30      ALPHA-BAR = 2.0      O-COMP     .32639
POINT    40      SIGMA     = 45.      V-REF      = 200.35
          COMPUED FREQUENCY = 15.45.  K          = .1211

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
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MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 153 ALPHA-MCL = 6.0 POP RUN.PT 30.04  
 PUM 30 ALPHA-BAR = 2.0 D-COPP = .32639  
 POINT 4 SIGMA = .5 V-REF = 200.35  
 COMPUTED FREQUENCY = 15.45 K = .1211

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=005  
 SUCTION

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N	CP-MAG	PHI
1	9.416	194.20
2	5.539	124.37
3	.797	43.59
4	.393	325.51
5	.594	73.35
6	.444	72.54
7	.074	164.85
8	.082	49.82
9	.015	287.57
10	.077	129.19

X=012 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	18.442	201.20	1	15.374	198.71	1	20.572	200.04	1	23.302	196.73	1	14.967	196.22	1	15.103	193.73	
2	1.688	144.36	2	3.782	124.84	2	3.963	322.85	2	.521	350.87	2	3.254	308.08	2	.090	197.12	
3	1.085	188.63	3	1.088	159.20	3	1.151	296.61	3	.213	233.84	3	.205	346.34	3	.583	232.46	
4	.386	197.48	4	.675	186.07	4	.730	108.77	4	.327	138.63	4	.276	346.34	4	.059	223.46	
5	.085	31.12	5	.224	194.91	5	.538	220.15	5	.315	157.08	5	.191	197.45	5	.213	182.83	
6	.197	157.48	6	.143	243.19	6	.102	53.48	6	.101	192.05	6	.191	179.45	6	.091	319.67	
7	.132	62.29	7	.032	275.16	7	.078	324.74	7	.166	215.41	7	.071	306.58	7	.036	303.67	
8	.038	3.59	8	.032	275.16	8	.091	327.83	8	.091	196.71	8	.039	302.48	8	.057	303.67	
9	.103	160.44	9	.032	275.16	9	.091	327.83	9	.091	196.71	9	.039	302.48	9	.057	303.67	
10	.103	160.44	10	.032	275.16	10	.091	327.83	10	.091	196.71	10	.039	302.48	10	.057	303.67	

X=030  
 SUCTION

N	CP-MAG	PHI
1	11.922	198.72
2	1.287	312.43
3	1.488	66.42
4	3.441	349.80
5	.633	102.40
6	.303	102.89
7	.030	87.01
8	.041	276.74
9	.043	4.41
10	.047	116.90

# OCWT PERIODICITY TEST MODE 2 -- LEADING EDGE PLANE DATA: WALL STATIONS

FILE 153 ALPHA-MCL = 6.0 PUP RUN-PT 30.04  
 RUN 30 ALPHA-BAR = 2.0 O-COMP = 32639  
 POINT 4 SIGMA = 45. V-REF = 200.35  
 COMPUTED FREQUENCY = 15.45, K = .1211  
 UNBIASED PHASE ANGLE

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	1			4			5			6			7			9		
X=.062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	3.803	192.39	1	5.355	193.94	1	5.236	194.73	1	5.453	192.00	1	5.783	190.53	1	5.176	189.00
	2	1.197	182.97	1	1.871	300.22	1	.491	117.56	1	.333	175.34	1	.106	125.10	1	.275	148.05
	3	1.463	296.46	1	1.028	358.03	1	.086	117.70	1	.112	295.65	1	.177	186.17	1	.177	148.05
	4	1.011	234.22	1	1.378	317.72	1	.045	332.26	1	.035	297.29	1	.092	177.93	1	.051	227.69
	5	1.044	320.01	1	.081	173.72	1	.020	119.16	1	.034	50.38	1	.017	251.36	1	.008	237.77
	6	1.021	343.97	1	.026	117.86	1	.051	117.86	1	.040	67.91	1	.050	196.80	1	.023	215.21
	7	1.011	374.79	1	.026	108.97	1	.016	108.97	1	.030	189.95	1	.023	208.19	1	.031	81.87
	8	1.011	374.79	1	.026	108.97	1	.016	108.97	1	.030	189.95	1	.023	208.19	1	.031	81.87
	9	1.011	374.79	1	.026	108.97	1	.016	108.97	1	.030	189.95	1	.023	208.19	1	.031	81.87
	10	1.010	188.65	1	.022	282.80	1	.021	280.92	1	.007	289.41	1	.004	251.96	1	.007	203.90
X=.012 PRESSURE	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
	1	5.467	31.46	1	5.636	26.14	1	6.992	23.49	1	7.949	14.05	1	7.949	14.05	1	8.097	23.73
	2	1.865	330.47	1	.107	303.58	1	.864	317.76	1	.864	317.76	1	.454	19.76	1	.319	23.26
	3	1.194	269.65	1	.125	93.22	1	.125	93.22	1	.125	93.22	1	.061	174.44	1	.049	23.61
	4	1.062	232.19	1	.058	220.96	1	.056	40.15	1	.056	40.15	1	.108	125.47	1	.046	277.12
	5	1.019	194.11	1	.020	93.53	1	.035	302.80	1	.044	263.80	1	.032	137.78	1	.023	152.55
	6	1.039	354.24	1	.036	279.54	1	.031	351.54	1	.031	351.54	1	.057	353.23	1	.063	265.72
	7	1.009	118.95	1	.010	26.79	1	.016	189.68	1	.013	167.74	1	.016	189.68	1	.026	165.62
	8	1.018	147.71	1	.007	175.81	1	.004	57.94	1	.004	57.94	1	.013	336.17	1	.026	165.62
	9	1.018	320.75	1	.023	137.87	1	.021	57.94	1	.021	57.94	1	.019	336.17	1	.019	34.09
	10	1.018	320.75	1	.023	137.87	1	.021	57.94	1	.021	57.94	1	.019	336.17	1	.019	34.09

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3	W4	W5	W7	W8	W9											
	.062	.125	.250	.750	.875	.938											
N	CP-MAG	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	
1	12	.652	10	.720	14	.191	197.10	89	1	.269	12	.250	152.89	75	1	.157	136.68
2	1	.259	1	.761	.226	161	321.60	.46	1	.143	2	.291	306.61	149	1	.116	308.23
3	1	.356	1	.427	.359	.047	106.95	.44	1	.061	2	.043	302.14	107	1	.071	305.05
4	1	.208	1	.468	.208	.032	113.22	.54	1	.025	2	.010	117.96	120	1	.008	359.02
5	1	.163	1	.083	.163	.010	148.82	.61	1	.006	2	.002	166.39	139	1	.011	339.19
6	1	.148	1	.061	.148	.002	149.20	.84	1	.001	2	.001	246.84	160	1	.003	379.58
7	1	.038	1	.049	.038	.023	271.21	.71	1	.021	2	.014	336.00	179	1	.012	359.02
8	1	.057	1	.043	.057	.011	245.26	.80	1	.011	2	.008	245.26	190	1	.001	379.58
9	1	.026	1	.031	.026	.014	168.29	.80	1	.011	2	.008	245.26	190	1	.001	379.58
10	1	.026	1	.031	.026	.014	168.29	.80	1	.011	2	.008	245.26	190	1	.001	379.58



MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 155 ALPHA-MCL = 6.0 PUP RUN.PT 30.06  
 RUN 20 ALPHA-BAR = 2.0 Q-COMP = 32556  
 POINT 6 SIGMA = 45. V-REF = 200.09  
 COMPUTED FREQUENCY = 19.09, M = .1499

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
XE.012 SUCTION	<p>N CPREAL CPIMAG</p> <p>1 -2.023 8.890</p> <p>2 -2.292 -4.859</p> <p>3 -2.549 -2.817</p> <p>4 -2.718 -2.387</p> <p>5 -2.809 -1.555</p> <p>6 -2.800 -0.336</p> <p>7 -2.600 -0.116</p> <p>8 -2.004 -0.061</p> <p>9 -2.001 -0.011</p> <p>10 -2.046 -0.026</p>	<p>N CPREAL CPIMAG</p> <p>1 -2.023 8.890</p> <p>2 -2.292 -4.859</p> <p>3 -2.549 -2.817</p> <p>4 -2.718 -2.387</p> <p>5 -2.809 -1.555</p> <p>6 -2.800 -0.336</p> <p>7 -2.600 -0.116</p> <p>8 -2.004 -0.061</p> <p>9 -2.001 -0.011</p> <p>10 -2.046 -0.026</p>	<p>N CPREAL CPIMAG</p> <p>1 -2.023 8.890</p> <p>2 -2.292 -4.859</p> <p>3 -2.549 -2.817</p> <p>4 -2.718 -2.387</p> <p>5 -2.809 -1.555</p> <p>6 -2.800 -0.336</p> <p>7 -2.600 -0.116</p> <p>8 -2.004 -0.061</p> <p>9 -2.001 -0.011</p> <p>10 -2.046 -0.026</p>	<p>N CPREAL CPIMAG</p> <p>1 -2.023 8.890</p> <p>2 -2.292 -4.859</p> <p>3 -2.549 -2.817</p> <p>4 -2.718 -2.387</p> <p>5 -2.809 -1.555</p> <p>6 -2.800 -0.336</p> <p>7 -2.600 -0.116</p> <p>8 -2.004 -0.061</p> <p>9 -2.001 -0.011</p> <p>10 -2.046 -0.026</p>	<p>N CPREAL CPIMAG</p> <p>1 -2.023 8.890</p> <p>2 -2.292 -4.859</p> <p>3 -2.549 -2.817</p> <p>4 -2.718 -2.387</p> <p>5 -2.809 -1.555</p> <p>6 -2.800 -0.336</p> <p>7 -2.600 -0.116</p> <p>8 -2.004 -0.061</p> <p>9 -2.001 -0.011</p> <p>10 -2.046 -0.026</p>	<p>N CPREAL CPIMAG</p> <p>1 -2.023 8.890</p> <p>2 -2.292 -4.859</p> <p>3 -2.549 -2.817</p> <p>4 -2.718 -2.387</p> <p>5 -2.809 -1.555</p> <p>6 -2.800 -0.336</p> <p>7 -2.600 -0.116</p> <p>8 -2.004 -0.061</p> <p>9 -2.001 -0.011</p> <p>10 -2.046 -0.026</p>
XE.012 SUCTION	<p>N CPREAL CPIMAG</p> <p>1 7.244 16.564</p> <p>2 -3.209 -3.239</p> <p>3 -1.598 -0.429</p> <p>4 -0.486 -0.042</p> <p>5 -0.300 -0.141</p> <p>6 -0.093 -0.036</p> <p>7 -0.113 -0.157</p> <p>8 -0.138 -0.036</p> <p>9 -0.100 -0.039</p> <p>10 -0.100 -0.039</p>	<p>N CPREAL CPIMAG</p> <p>1 7.244 16.564</p> <p>2 -3.209 -3.239</p> <p>3 -1.598 -0.429</p> <p>4 -0.486 -0.042</p> <p>5 -0.300 -0.141</p> <p>6 -0.093 -0.036</p> <p>7 -0.113 -0.157</p> <p>8 -0.138 -0.036</p> <p>9 -0.100 -0.039</p> <p>10 -0.100 -0.039</p>	<p>N CPREAL CPIMAG</p> <p>1 7.244 16.564</p> <p>2 -3.209 -3.239</p> <p>3 -1.598 -0.429</p> <p>4 -0.486 -0.042</p> <p>5 -0.300 -0.141</p> <p>6 -0.093 -0.036</p> <p>7 -0.113 -0.157</p> <p>8 -0.138 -0.036</p> <p>9 -0.100 -0.039</p> <p>10 -0.100 -0.039</p>	<p>N CPREAL CPIMAG</p> <p>1 7.244 16.564</p> <p>2 -3.209 -3.239</p> <p>3 -1.598 -0.429</p> <p>4 -0.486 -0.042</p> <p>5 -0.300 -0.141</p> <p>6 -0.093 -0.036</p> <p>7 -0.113 -0.157</p> <p>8 -0.138 -0.036</p> <p>9 -0.100 -0.039</p> <p>10 -0.100 -0.039</p>	<p>N CPREAL CPIMAG</p> <p>1 7.244 16.564</p> <p>2 -3.209 -3.239</p> <p>3 -1.598 -0.429</p> <p>4 -0.486 -0.042</p> <p>5 -0.300 -0.141</p> <p>6 -0.093 -0.036</p> <p>7 -0.113 -0.157</p> <p>8 -0.138 -0.036</p> <p>9 -0.100 -0.039</p> <p>10 -0.100 -0.039</p>	<p>N CPREAL CPIMAG</p> <p>1 7.244 16.564</p> <p>2 -3.209 -3.239</p> <p>3 -1.598 -0.429</p> <p>4 -0.486 -0.042</p> <p>5 -0.300 -0.141</p> <p>6 -0.093 -0.036</p> <p>7 -0.113 -0.157</p> <p>8 -0.138 -0.036</p> <p>9 -0.100 -0.039</p> <p>10 -0.100 -0.039</p>
XE.030 SUCTION	<p>N CPREAL CPIMAG</p> <p>1 7.244 16.564</p> <p>2 -3.209 -3.239</p> <p>3 -1.598 -0.429</p> <p>4 -0.486 -0.042</p> <p>5 -0.300 -0.141</p> <p>6 -0.093 -0.036</p> <p>7 -0.113 -0.157</p> <p>8 -0.138 -0.036</p> <p>9 -0.100 -0.039</p> <p>10 -0.100 -0.039</p>	<p>N CPREAL CPIMAG</p> <p>1 7.244 16.564</p> <p>2 -3.209 -3.239</p> <p>3 -1.598 -0.429</p> <p>4 -0.486 -0.042</p> <p>5 -0.300 -0.141</p> <p>6 -0.093 -0.036</p> <p>7 -0.113 -0.157</p> <p>8 -0.138 -0.036</p> <p>9 -0.100 -0.039</p> <p>10 -0.100 -0.039</p>	<p>N CPREAL CPIMAG</p> <p>1 7.244 16.564</p> <p>2 -3.209 -3.239</p> <p>3 -1.598 -0.429</p> <p>4 -0.486 -0.042</p> <p>5 -0.300 -0.141</p> <p>6 -0.093 -0.036</p> <p>7 -0.113 -0.157</p> <p>8 -0.138 -0.036</p> <p>9 -0.100 -0.039</p> <p>10 -0.100 -0.039</p>	<p>N CPREAL CPIMAG</p> <p>1 7.244 16.564</p> <p>2 -3.209 -3.239</p> <p>3 -1.598 -0.429</p> <p>4 -0.486 -0.042</p> <p>5 -0.300 -0.141</p> <p>6 -0.093 -0.036</p> <p>7 -0.113 -0.157</p> <p>8 -0.138 -0.036</p> <p>9 -0.100 -0.039</p> <p>10 -0.100 -0.039</p>	<p>N CPREAL CPIMAG</p> <p>1 7.244 16.564</p> <p>2 -3.209 -3.239</p> <p>3 -1.598 -0.429</p> <p>4 -0.486 -0.042</p> <p>5 -0.300 -0.141</p> <p>6 -0.093 -0.036</p> <p>7 -0.113 -0.157</p> <p>8 -0.138 -0.036</p> <p>9 -0.100 -0.039</p> <p>10 -0.100 -0.039</p>	<p>N CPREAL CPIMAG</p> <p>1 7.244 16.564</p> <p>2 -3.209 -3.239</p> <p>3 -1.598 -0.429</p> <p>4 -0.486 -0.042</p> <p>5 -0.300 -0.141</p> <p>6 -0.093 -0.036</p> <p>7 -0.113 -0.157</p> <p>8 -0.138 -0.036</p> <p>9 -0.100 -0.039</p> <p>10 -0.100 -0.039</p>

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FILE 155 ALPHA-MCL = 6.0 POP RUN.PT = 30.06
RUN 30 ALPHA-BAR = 2.0 Q-COMP = .3256
POINT 6 SIGMA = .45 V-REF = 200.09
COMPUTED FREQUENCY = 19.09, K = .1499

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
COMPUTED FREQUENCY = 19.09,

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

Q

**SUC TION**  
**X-062**

[illegible]

PRESSURE = 0.12

[illegible]

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.  
GAP FRACTION[illegible]

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 155 ALPHA-MCL = 6.0 POP FUN-PT 30.06  
 RUN 30 ALPHA-BAR = 2.0 O-COMP = 32556  
 POINT 6 SIGMA = 45. V-REF = 200.09  
 COMPUTED FREQUENCY = 19.8% K = .1499

FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

X=.005  
 SUCTION

N	CP-MAG	PHI
1	9.118	192.84
2	5.373	115.25
3	1.082	30.49
4	.501	309.36
5	.346	63.34
6	.320	344.51
7	.116	180.21
8	.061	193.91
9	.011	182.69
10	.048	147.14

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	19.079	201.38	1	15.189	197.48	1	20.247	198.34	1	22.128	195.06	1	19.168	194.13	1	15.059	192.12
2	4.565	135.04	2	3.764	121.64	2	1.591	327.60	2	1.365	152.19	2	3.154	302.33	2	2.205	297.32
3	1.595	240.04	3	3.227	223.87	3	1.216	377.46	3	1.887	222.56	3	.517	350.37	3	.521	319.65
4	.488	175.11	4	1.020	140.11	4	.297	339.46	4	.239	136.04	4	.377	335.92	4	.223	355.13
5	.522	80.37	5	.370	267.20	5	.739	199.07	5	.260	265.99	5	.151	208.49	5	.095	169.33
6	.147	343.37	6	.504	160.42	6	.508	182.52	6	.039	143.77	6	.080	144.78	6	.019	120.76
7	.124	181.45	7	.166	167.25	7	.066	293.96	7	.131	271.99	7	.149	269.87	7	.040	208.48
8	.194	154.14	8	.065	240.97	8	.073	134.52	8	.017	135.48	8	.139	337.67	8	.028	310.66
9	.138	317.48	9	.047	205.29	9	.031	135.48	9	.051	71.99	9	.104	337.67	9	.031	310.66
10	.107	111.61	10	.053	205.29	10	.031	135.48	10	.062	71.99	10	.104	337.67	10	.031	310.66

X=.030  
 SUCTION

N	CP-MAG	PHI
1	12.108	196.64
2	4.355	108.01
3	1.618	56.92
4	.404	320.74
5	.558	180.28
6	.282	178.18
7	.038	10.79
8	.037	203.87
9	.066	311.63
10	.053	96.87

# MODE 2 --- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 155 ALPHA-MCL = 6.0 POP RUN-PT 30.06  
 RUN 30 ALPHA-BAR = 2.0 O-COMP = 32556  
 POINT 6 SIGMA = 45. V-REF = 200.09  
 COMPUTED FREQUENCY = 19.09, K = .1499

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	3.991 197.56	1 5.637 193.64	1 5.234 192.48	1 5.339 189.29	1 5.681 187.65	1 5.946 186.39
2	3.308 154.89	1 .937 104.79	1 .072 95.15	1 .195 90.40	1 .064 85.00	1 .135 80.21
3	3.128 120.78	1 .643 76.41	1 .052 66.89	1 .093 62.03	1 .050 57.39	1 .067 52.72
4	3.044 92.55	1 .296 48.06	1 .001 35.75	1 .060 32.87	1 .041 29.03	1 .007 25.89
5	3.053 64.35	1 .087 20.34	1 .018 15.44	1 .005 13.59	1 .004 10.72	1 .011 7.64
6	3.084 36.22	1 .038 10.65	1 .012 7.91	1 .002 5.91	1 .004 4.33	1 .007 3.05
7	3.054 17.91	1 .036 6.65	1 .013 23.31	1 .024 19.22	1 .004 13.73	1 .014 10.54
8	3.039 326.45	1 .036 266.47	1 .005 124.69	1 .017 70.68	1 .035 62.60	1 .007 32.56
9	3.074 113.62	1 .020 86.50	1 .023 124.69	1 .023 70.68	1 .033 62.60	1 .013 32.56
10						
X=.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	5.298 29.79	1 5.107 26.09	1 5.673 23.77	1 7.673 21.52	1 11.52 11.52	1 7.979 10.79
2	5.775 155.87	1 .088 102.21	1 .042 85.56	1 .094 73.34	1 .094 60.00	1 .148 50.2
3	5.016 126.93	1 .043 81.11	1 .027 70.98	1 .027 66.66	1 .027 66.66	1 .028 66.66
4	5.073 93.33	1 .021 68.99	1 .023 58.72	1 .027 52.17	1 .027 47.80	1 .026 43.32
5	5.008 71.1	1 .025 51.43	1 .023 42.66	1 .027 37.26	1 .027 32.80	1 .026 28.89
6	5.053 48.63	1 .016 33.86	1 .017 28.49	1 .017 23.28	1 .017 19.96	1 .027 15.33
7	5.033 23.63	1 .016 22.86	1 .017 18.52	1 .017 15.28	1 .017 12.34	1 .027 9.99
8	5.034 114.60	1 .017 337.81	1 .025 248.89	1 .025 209.70	1 .032 209.70	1 .023 126.24
9						
10						

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	12.626 191.49	10.682 188.50	4.119 196.80	1.425 198.81	1.377 191.68	1.278 184.07
2	1.208 328.98	1 .086 306.13	1.129 280.91	1.106 250.48	1.113 235.57	1.022 227.66
3	1.374 168.33	1 .768 192.31	1.052 191.51	1.06 145.57	1.113 113.18	1.125 114.55
4	1.256 209.35	1 .437 170.19	1.026 165.78	1.010 158.01	1.009 147.33	1.004 147.55
5	1.002 204.81	1 .016 225.16	1.026 225.16	1.017 211.11	1.028 207.33	1.031 207.53
6	1.060 309.73	1 .005 249.90	1.018 340.29	1.017 306.33	1.021 303.22	1.014 295.88
7	1.030 13.01	1 .027 355.10	1.047 340.94	1.012 306.33	1.014 303.22	1.005 295.88
8	1.042 66.08	1 .033 112.43	1.029 144.00	1.004 175.86	1.002 159.48	1.004 159.48
9						
10						

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 157 ALPHA-MCL = 6.0 PDP RUN.PT 31.05  
 RUN 31 ALPHA-BAP = 2.0 Q-COMP = .32079  
 POINT 2 SIGMA = 90. V-REF = 196.61  
 COMPUTED FREQUENCY = 9.09, K = .0719

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=.005  
 SUCTION

9

7

6

5

4

3

N	CPREAL	CPIMAG
1	8.892	1.735
2	-2.938	7.346
3	-1.137	-2.399
4	-2.237	-8.446
5	-4.999	-3.308
6	-2.215	-3.339
7	-2.822	-0.012
8	-0.035	-0.001
9	-0.057	-0.060
10		

X=.012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	3.301	-16.517	1	13.824	3.403	1	-5.663	19.977	1	-24.602	-6.344
2	3.621	-7.041	2	-2.523	9.063	2	-1.088	.724	2	-2.738	1.270
3	-2.367	2.184	3	-2.928	2.150	3	1.605	-8.06	3	-2.040	-2.641
4	-4.998	.756	4	-6.98	.465	4	3.149	-3.91	4	.508	-1.155
5	-3.32	.333	5	-5.87	.918	5	2.733	.705	5	.035	-1.334
6	-2.477	.629	6	-7.84	.110	6	-2.309	.482	6	.039	-1.58
7	-1.02	-1.12	7	-1.20	-1.53	7	-2.52	.455	7	.081	-.933
8	.354	.074	8	-3.84	.131	8	-1.91	-7.41	8	.207	-.335
9	.034	-1.21	9	.020	-.352	9	.091	-3.92	9	-.180	.001
10	-.036	-.052	10	-.007	.042	10	.054	-.023	10	-.035	.070

X=.030  
 SUCTION

N	CPREAL	CPIMAG
1	14.511	3.563
2	2.916	-2.754
3	2.792	.396
4	-1.465	-1.665
5	-1.426	-1.426
6	.094	-1.770
7	-.077	-.052
8	-.403	-.099
9	-.052	-.133
10		

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	6.437	-24.349	1	6.437	-24.349	1	-4.952	18.935			
2	-2.795	3.770	2	-2.795	3.770	2	-2.029	2.889			
3	.248	.185	3	.248	.185	3	-.636	-.524			
4	.996	-.524	4	.996	-.524	4	.682	-.101			
5	.497	.044	5	.497	.044	5	.591	-.007			
6	.071	.059	6	.071	.059	6	.136	-.002			
7	.201	-.035	7	.201	-.035	7	-.188	-.105			
8	-.021	-.043	8	-.021	-.043	8	-.104	-.126			
9	-.113	-.119	9	-.113	-.119	9	-.025	-.041			
10	.034	.126	10	.034	.126	10	.010	.098			

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 157 ALPHA-MCL = 6.0 POP RUN-PT 31.05  
 RUN 31 ALPHA-BAR = 32.079  
 POINT 2 SIGMA = 90.0  
 COMPUTED FREQUENCY = 9.09, K = .0719

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	1.941	-7.918	1	11.561	2.585	1	-1.409	7.998	1	1.005	-6.421	1	1.005	-6.421	1	-914	6.010
	2	-1.652	2.229	2	-2.016	-3.655	2	-1.210	1.404	2	-1.139	1.433	2	-1.139	1.433	2	-099	2.746
	3	-1.726	-2.016	3	-3.511	-1.750	3	-1.422	1.918	3	-1.132	1.199	3	-1.132	1.199	3	-099	1.766
	4	1.580	1.232	4	1.351	1.199	4	-1.422	1.918	4	1.005	1.199	4	1.005	1.199	4	-099	-0.256
	5	1.726	1.232	5	1.351	1.199	5	-1.422	1.918	5	1.005	1.199	5	1.005	1.199	5	-099	-0.090
	6	1.726	1.232	6	1.351	1.199	6	-1.422	1.918	6	1.005	1.199	6	1.005	1.199	6	-099	-0.058
	7	1.726	1.232	7	1.351	1.199	7	-1.422	1.918	7	1.005	1.199	7	1.005	1.199	7	-099	-0.014
	8	1.726	1.232	8	1.351	1.199	8	-1.422	1.918	8	1.005	1.199	8	1.005	1.199	8	-099	-0.004
	9	1.726	1.232	9	1.351	1.199	9	-1.422	1.918	9	1.005	1.199	9	1.005	1.199	9	-099	-0.004
	10	1.726	1.232	10	1.351	1.199	10	-1.422	1.918	10	1.005	1.199	10	1.005	1.199	10	-099	-0.025
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	-2.150	6.825	1	2.478	-5.662	1	2.478	-5.662	1	-2.716	11.220	1	2.478	-5.662	1	9.037	-10.284
	2	1.314	1.358	2	-5.573	1.098	2	-5.573	1.098	2	-2.716	11.220	2	-2.716	11.220	2	-2.716	11.220
	3	1.314	1.358	3	-5.573	1.098	3	-5.573	1.098	3	-2.716	11.220	3	-2.716	11.220	3	-2.716	11.220
	4	1.314	1.358	4	-5.573	1.098	4	-5.573	1.098	4	-2.716	11.220	4	-2.716	11.220	4	-2.716	11.220
	5	1.314	1.358	5	-5.573	1.098	5	-5.573	1.098	5	-2.716	11.220	5	-2.716	11.220	5	-2.716	11.220
	6	1.314	1.358	6	-5.573	1.098	6	-5.573	1.098	6	-2.716	11.220	6	-2.716	11.220	6	-2.716	11.220
	7	1.314	1.358	7	-5.573	1.098	7	-5.573	1.098	7	-2.716	11.220	7	-2.716	11.220	7	-2.716	11.220
	8	1.314	1.358	8	-5.573	1.098	8	-5.573	1.098	8	-2.716	11.220	8	-2.716	11.220	8	-2.716	11.220
	9	1.314	1.358	9	-5.573	1.098	9	-5.573	1.098	9	-2.716	11.220	9	-2.716	11.220	9	-2.716	11.220
	10	1.314	1.358	10	-5.573	1.098	10	-5.573	1.098	10	-2.716	11.220	10	-2.716	11.220	10	-2.716	11.220

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3	W4	W5	W6	W7	W8	W9							
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	15.729	0.062	1	12.068	1.573	1	4.740	1.777	1	3.632	1.463	1	1.651	1.287
2	1.669	0.125	2	1.756	0.616	2	1.800	1.449	2	2.242	1.777	2	1.051	1.309
3	1.669	0.125	3	1.756	0.616	3	1.800	1.449	3	2.242	1.777	3	1.051	1.309
4	1.669	0.125	4	1.756	0.616	4	1.800	1.449	4	2.242	1.777	4	1.051	1.309
5	1.669	0.125	5	1.756	0.616	5	1.800	1.449	5	2.242	1.777	5	1.051	1.309
6	1.669	0.125	6	1.756	0.616	6	1.800	1.449	6	2.242	1.777	6	1.051	1.309
7	1.669	0.125	7	1.756	0.616	7	1.800	1.449	7	2.242	1.777	7	1.051	1.309
8	1.669	0.125	8	1.756	0.616	8	1.800	1.449	8	2.242	1.777	8	1.051	1.309
9	1.669	0.125	9	1.756	0.616	9	1.800	1.449	9	2.242	1.777	9	1.051	1.309
10	1.669	0.125	10	1.756	0.616	10	1.800	1.449	10	2.242	1.777	10	1.051	1.309

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 157 ALPHA-MCL = 6.0 POP RUN-PT 31.05  
 RUN 31 ALPHA-8AR = 2.0 Q-COMP = .32079  
 POINT 2 SIGMA = 90. V-REF = 196.61  
 COMPUTED FREQUENCY = 9.09, K = .0719

FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 8 9

X=0.025  
 SUCTION

N	CP-MAG	PHI
1	9.059	191.04
2	7.911	111.80
3	.419	67.87
4	.347	136.82
5	.982	159.43
6	.630	330.77
7	.402	57.57
8	.383	1.78
9	.035	1.47
10	.082	46.47

X=0.012  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	16.843	191.33	1	20.764	195.83	1	25.407	194.46	1	25.186	194.81
2	7.917	117.35	2	1.796	126.37	2	1.331	120.15	2	.693	106.56
3	3.221	227.38	3	3.173	352.92	3	.336	342.99	3	.309	126.70
4	.905	315.18	4	2.414	106.98	4	.331	275.97	4	1.125	132.27
5	.470	354.09	5	.883	213.88	5	.867	199.79	5	.092	84.98
6	.248	42.45	6	.520	151.03	6	.097	326.87	6	.092	219.68
7	.151	11.74	7	.765	255.53	7	.394	338.28	7	.048	80.19
8	.362	194.59	8	.402	133.02	8	.180	179.63	8	.164	244.24
9	.135	55.44	9	.059	157.33	9	.078	116.64	9	.130	255.12
10	.063	194.59	10			10			10	.098	264.05

X=0.030  
 SUCTION

N	CP-MAG	PHI
1	14.942	193.80
2	3.413	306.21
3	.884	206.64
4	2.760	322.95
5	1.500	71.94
6	.773	297.69
7	.407	84.58
8	.112	187.33
9	.164	117.74
10		234.13

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 157 ALPHA-MCL = 6.0 POP RUN.PI 31.05  
 RUN 31 ALPHA-BAR = 2.0 Q-COMP = 32079  
 POINT 2 SIGMA = 90. V-REF = 198.61  
 COMPUTED FREQUENCY = 9.09, K = .0719  
 FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	5	6	7	9
X=062 SUCTION					
N	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
CP-MAG	8.151 193.77 2.775 306.54 1.994 59.93 1.980 172.54 .594 282.84 .263 105.56 .245 269.48 .141 46.10 .140 142.96 .074 243.26	11.846 192.60 4.261 300.93 2.669 40.97 .401 150.42 .627 167.11 .738 174.32 .453 283.89 .106 81.13 .105 270.49 .130 77.99	8.121 169.99 1.854 310.74 1.692 57.16 .814 181.14 .765 291.33 .604 42.69 .312 144.10 .024 168.47 .039 184.58 .087 275.63	6.499 188.09 1.281 309.56 1.199 56.24 .243 183.56 .060 215.26 .134 148.69 .070 207.56 .067 137.11 .007 261.28 .354 261.28	6.079 188.09 2.259 309.56 2.204 56.24 .083 183.56 .099 215.26 .069 148.69 .015 207.56 .005 137.11 .033 261.28 .033 261.28
PHI	193.77 306.54 59.93 172.54 282.84 105.56 269.48 46.10 142.96 243.26	192.60 300.93 40.97 150.42 167.11 174.32 283.89 81.13 270.49 77.99	169.99 310.74 57.16 181.14 291.33 42.69 144.10 168.47 184.58 275.63	188.09 309.56 56.24 183.56 215.26 148.69 207.56 137.11 261.28 261.28	188.09 309.56 56.24 183.56 215.26 148.69 207.56 137.11 261.28 261.28
X=012 PRESSURE					
N	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
CP-MAG	7.159 17.49 1.393 283.00 .224 169.71 .286 316.46 .177 196.98 .139 99.26 .128 308.33 .088 151.33 .018 197.76 .035 299.49	6.181 23.69 1.230 308.97 1.132 117.07 .204 333.31 .063 27.09 .122 116.78 .019 180.23 .016 263.61 .021 275.81	9.213 23.69 .989 308.97 .231 117.07 .326 333.31 .106 27.09 .120 116.78 .105 158.51 .051 158.51 .021 289.65	11.584 23.69 .570 308.97 .303 117.07 .173 333.31 .158 27.09 .061 158.51 .009 158.51 .033 158.51 .033 158.51	11.048 23.69 1.374 308.97 .228 117.07 .229 333.31 .109 27.09 .067 158.51 .031 158.51 .030 158.51
PHI	17.49 283.00 169.71 316.46 196.98 99.26 308.33 151.33 197.76 299.49	23.69 308.97 117.07 333.31 27.09 116.78 180.23 263.61 275.81	23.69 308.97 117.07 333.31 27.09 116.78 180.23 263.61 275.81	23.69 308.97 117.07 333.31 27.09 116.78 180.23 263.61 275.81	23.69 308.97 117.07 333.31 27.09 116.78 180.23 263.61 275.81

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .918	
N	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	
CP-MAG	16.063 191.71 12.437 114.57 .437 51.75 .335 250.13 .072 220.58 .132 220.58 .113 220.58 .113 220.58	12.170 187.43 .972 181.53 .838 309.95 .233 312.44 .065 163.64 .071 229.87 .129 229.87 .129 229.87	4.745 182.57 .386 101.91 .252 359.58 .145 49.87 .062 276.65 .009 27.39 .009 27.39 .009 27.39	2.237 182.57 .586 101.91 .260 359.58 .166 49.87 .060 276.65 .017 27.39 .059 27.39 .059 27.39	2.302 140.53 .466 116.80 .270 334.44 .117 116.80 .080 196.60 .082 196.60 .052 196.60 .052 196.60	2.223 140.53 .387 116.80 .408 334.44 .132 116.80 .061 196.60 .063 196.60 .063 196.60 .063 196.60	2.223 140.53 .387 116.80 .408 334.44 .132 116.80 .061 196.60 .063 196.60 .063 196.60 .063 196.60
PHI	191.71 124.57 114.57 51.75 250.13 220.58 220.58 220.58 220.58 220.58	187.43 181.53 309.95 312.44 163.64 229.87 229.87 229.87 229.87 229.87	182.57 101.91 359.58 49.87 276.65 27.39 27.39 27.39 27.39 27.39	182.57 101.91 359.58 49.87 276.65 27.39 27.39 27.39 27.39 27.39	140.53 116.80 334.44 116.80 196.60 196.60 196.60 196.60 196.60 196.60	140.53 116.80 334.44 116.80 196.60 196.60 196.60 196.60 196.60 196.60	140.53 116.80 334.44 116.80 196.60 196.60 196.60 196.60 196.60 196.60



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 159 ALPHA-MCL = 6.0 PDP RUN-PT 31.07  
 RUN 31 ALPHA-BAR = 2.0 O-COMP = .32433  
 POINT 4 SIGMA = 90.0 V-REF = 199.72  
 COMPUTED FREQUENCY = 15.53, K = .1221

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

X=.005  
 SUCTION

N CPREAL CPIMAG  
 1 8.480 .858  
 2 -1.670 6.705  
 3 -.806 -.566  
 4 -.204 .052  
 5 -.500 -.416  
 6 .409 -.378  
 7 .002 -.203  
 8 .002 -.014  
 9 .017 -.024  
 10 -.008 .051

X=.012  
 SUCTION

N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG N CPREAL CPIMAG  
 1 3.474 -17.567 1 15.036 3.138 1 -5.822 19.365 1 24.809 -6.061 1 5.905 -24.348 1 -3.698 18.267  
 2 -2.392 -7.063 2 3.695 5.340 2 -1.432 -1.932 2 2.392 -2.392 2 2.422 3.738 2 -1.013 2.546  
 3 -2.476 2.509 3 1.187 1.689 3 2.421 1.354 3 -2.101 -2.381 3 2.422 3.738 3 2.422 3.738  
 4 -.243 .509 4 .900 .816 4 .083 .137 4 .394 .160 4 .564 .087 4 .354 .165  
 5 .456 .171 5 .637 .469 5 2.083 .806 5 2.421 .274 5 .470 .077 5 .451 .162  
 6 -.113 .240 6 .451 .235 6 .806 .296 6 .047 .175 6 .117 .169  
 7 .172 .035 7 .167 .012 7 .264 .049 7 .051 .008 7 .088 .024  
 8 .001 .021 8 .055 .195 8 .049 .301 8 .059 .007 8 .023 .025  
 9 .059 .070 9 .023 .077 9 .002 .001 9 .013 .036 9 .013 .036  
 10 .059 .070 10 .023 .077 10 .002 .001 10 .013 .036 10 .013 .036

X=.030  
 SUCTION

N CPREAL CPIMAG  
 1 14.143 2.730  
 2 2.333 -3.546  
 3 .263 -.219  
 4 1.359 -1.420  
 5 .656 -.022  
 6 .036 .478  
 7 .156 .014  
 8 .261 .028  
 9 .036 .071  
 10 .036 .071

# OCWT PERIODICITY TEST MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 159 ALPHA-MCL = 6.0 POP RUN-PT 31.07  
 RUN 31 ALPHA-BAR = 2.0 O-COMP = 32.33  
 POINT 4 SIGMA = 90. V-REF = 196.72  
 COMPUTED FREQUENCY = 15.53, K = .1221

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	1.736	-8.474	1	10.856	1.602	1	-1.518	7.384	1	-6.079	-1.001	1	.894	-6.909	1	-.693	5.520
2	2	-1.220	1.809	2	-2.142	-4.055	2	-1.751	.973	2	.294	.185	2	.220	-.138	2	.345	-.154
3	3	-1.361	-1.515	3	-2.381	-1.761	3	-1.828	.968	3	-.057	-.185	3	-.041	-.105	3	-.029	-.084
4	4	-1.087	-.640	4	-1.756	-1.716	4	-.642	.850	4	.064	.037	4	-.010	.008	4	.005	.003
5	5	-.586	-.050	5	-.209	-.052	5	-.466	-.094	5	.008	.022	5	.009	.036	5	.011	-.024
6	6	-.086	-.044	6	-.405	.318	6	-.177	-.112	6	-.008	.013	6	.006	.012	6	.006	.003
7	7	-.124	-.060	7	-.087	.265	7	-.055	.009	7	-.022	.022	7	.026	.019	7	.011	-.008
8	8	-.008	-.074	8	.018	.350	8	-.031	.033	8	-.002	.003	8	.009	.009	8	.000	-.000
9	9	-.035	-.051	9	.056	-.038	9	.031	.060	9	-.002	.034	9	.008	.001	9	.060	-.008
10	10	-.035	-.023	10	.056	-.038	10	-.006	.060	10	-.009	.034	10	.008	.001	10	-.015	.000
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	-2.093	6.160	1	2.479	-6.053	1	2.479	-6.053	1	8.202	-2.787	1	-2.098	10.036	1	3.143	-10.760
2	2	.312	-.038	2	-.062	-.116	2	-.062	-.116	2	-.171	-.041	2	-.096	-.102	2	-.137	-.266
3	3	.003	-.013	3	.018	.142	3	.018	.142	3	-.028	.011	3	-.015	-.023	3	-.102	-.152
4	4	.004	-.011	4	.022	.027	4	.022	.027	4	.019	.020	4	-.013	-.063	4	-.086	.013
5	5	.016	-.034	5	-.030	.008	5	-.030	.008	5	.002	.006	5	-.019	.007	5	-.002	-.007
6	6	-.012	-.003	6	.019	-.005	6	.019	-.005	6	.023	.011	6	-.014	.005	6	.006	-.003
7	7	-.020	-.014	7	.003	-.006	7	.003	-.006	7	.008	.008	7	-.017	.005	7	-.006	-.003
8	8	-.022	-.022	8	.003	-.006	8	.003	-.006	8	.008	.008	8	-.017	.005	8	.006	-.003
9	9	-.022	-.022	9	.003	-.006	9	.003	-.006	9	.008	.008	9	-.017	.005	9	.006	-.003
10	10	-.020	-.014	10	.005	-.005	10	.005	-.005	10	.008	.008	10	-.017	.005	10	-.006	-.003

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938								
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-15.232	-3.351	1	-11.583	-2.014	1	-1.852	.423	1	-1.857	.525	1	-1.752	.612
2	-12.119	-1.895	2	-1.247	-1.074	2	-.072	-.153	2	-.063	-.247	2	-.085	-.275
3	-10.055	-.075	3	-.325	-.429	3	-.024	-.101	3	-.029	-.086	3	-.035	-.109
4	-.263	-.199	4	-.103	-.321	4	-.008	.084	4	.000	.004	4	.004	-.007
5	-.025	-.124	5	-.080	-.027	5	-.003	.021	5	-.000	.016	5	.001	.016
6	-.037	-.024	6	.061	.054	6	.018	-.011	6	.019	.008	6	.005	-.016
7	-.067	-.010	7	.016	-.029	7	.018	.002	7	.019	.008	7	.017	-.001
8	-.032	-.025	8	-.002	-.006	8	.008	.007	8	.004	.010	8	.001	-.008
9	-.015	-.058	9	-.008	-.048	9	.008	.012	9	.002	.011	9	.001	-.012
10	-.015	-.058	10	-.008	-.048	10	.008	.012	10	.002	.011	10	.001	-.012

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 159 ALPHA-MCL = 6.0 POP RUN-PT 31.07  
 PUM 31 ALPHA-BAR = 2.0 C-COMP = .32433  
 POINT 4 SIGMA = 90.0 VREF = 199.72  
 COMPUTED FREQUENCY = 15.53, M = .1221

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 5 6 7 9

N CP-MAG PHI  
 1 3.52M 185.77  
 2 5.91G 103.99  
 3 .085 35.06  
 4 .210 165.79  
 5 .650 339.76  
 6 .557 317.23  
 7 .203 90.84  
 8 .252 356.91  
 9 .030 125.66  
 10 .052 98.88

12=012  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	17.927	191.18	1	15.36G	191.79	1	20.225	196.73	1	25.539	193.73	1	25.054	193.63
2	7.457	104.71	2	5.607	107.62	2	1.561	219.43	2	3.195	154.59	2	.550	393.82
3	3.525	224.62	3	1.333	132.03	3	2.532	342.75	3	.375	228.59	3	.649	339.15
4	.618	113.52	4	1.035	133.85	4	2.088	93.72	4	.266	244.50	4	.478	379.52
5	.487	293.52	5	.651	133.85	5	.643	197.12	5	.448	154.85	5	.092	342.21
6	.352	374.02	6	.249	184.09	6	.403	132.14	6	.060	322.62	6	.210	146.21
7	.118	343.50	7	.168	173.53	7	.529	240.67	7	.067	186.98	7	.089	335.10
8	.021	357.50	8	.193	253.18	8	.305	350.67	8	.050	126.21	8	.026	154.12
9	.091	139.02	9	.081	253.18	9	.002	31.59	9	.063	250.63	9	.038	250.63
10			10			10			10			10		

12=031  
 SUCTION

N CP-MAG PHI  
 1 14.20M 190.93  
 2 4.24S 303.35  
 3 .358 142.28  
 4 1.965 313.74  
 5 1.013 57.27  
 6 .503 216.79  
 7 .261 171.89  
 8 .032 176.87  
 9 .080 240.21  
 10 .080 243.50

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 159 ALPHA-MCL = 6.0 POP RUN-PT 31.07  
 RUN 31 ALPHA-BAR = 2.0 Q-COMP = 32.93  
 POINT 4 SIGMA = 90.0 V-REF = 199.72  
 COMPUTED FREQUENCY = 15.53, N = .1221

FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	8.650 191.58	1 10.973 188.39	7.538 191.62	6.161 189.35	6.966 187.38	5.563 187.15
2	2.182 303.98	4 2.586 297.94	1.235 308.01	3.47 32.07	2.259 197.97	3.378 155.99
3	2.036 41.94	2 2.562 36.48	1.423 52.44	1.156 248.31	1.111 354.39	1.074 164.12
4	1.266 149.50	1 1.041 136.57	1.992 153.04	0.074 58.95	0.011 50.97	0.010 151.35
5	1.566 264.88	5 3.18 140.17	6.46 15.20	0.016 58.70	0.037 248.34	0.024 192.67
6	0.96 26.99	6 3.27 250.18	1.13 151.78	0.022 104.05	0.030 166.33	0.014 33.13
7	1.19 230.77	7 2.57 253.56	0.08 136.30	0.022 354.25	0.029 287.98	0.006 359.15
8	0.14 189.06	8 0.083 249.89	0.046 136.30	0.018 260.53	0.030 287.98	0.015 359.15
9	0.52 327.14	9 0.068 326.14	0.061 275.26	0.035 104.83	0.008 183.04	
10	0.042 327.14	10 0.068 326.14	0.061 275.26	0.035 104.83	0.008 183.04	
X=.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	6.506 18.77	1 6.541 22.27	8.563 18.77	1 10.253 11.81	1 11.268 17.24	
2	7.69 296.03	2 7.77 277.65	1.176 297.01	1 10.253 11.81	1 11.268 17.24	
3	1.22 88.68	3 1.27 92.59	1.176 297.01	1 10.253 11.81	1 11.268 17.24	
4	0.13 196.68	4 0.23 34.03	1.176 297.01	1 10.253 11.81	1 11.268 17.24	
5	0.020 144.59	5 0.23 34.03	1.176 297.01	1 10.253 11.81	1 11.268 17.24	
6	0.038 144.71	6 0.23 34.03	1.176 297.01	1 10.253 11.81	1 11.268 17.24	
7	0.013 137.38	7 0.19 334.63	1.176 297.01	1 10.253 11.81	1 11.268 17.24	
8	0.010 137.60	8 0.019 334.63	1.176 297.01	1 10.253 11.81	1 11.268 17.24	
9	0.014 271.82	9 0.007 128.10	1.176 297.01	1 10.253 11.81	1 11.268 17.24	
10		10	1.176 297.01	1 10.253 11.81	1 11.268 17.24	

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	15.536 192.41	1 11.757 189.49	4.826 195.96	1.900 167.14	1.922 157.23	1.859 140.74
2	12.833 136.14	2 1.623 318.57	4.826 195.96	1.504 342.27	1.922 157.23	1.859 140.74
3	1.117 140.23	3 1.057 315.32	4.826 195.96	1.504 342.27	1.922 157.23	1.859 140.74
4	1.336 217.14	4 1.057 315.32	4.826 195.96	1.504 342.27	1.922 157.23	1.859 140.74
5	1.126 210.20	5 1.057 315.32	4.826 195.96	1.504 342.27	1.922 157.23	1.859 140.74
6	0.044 212.48	6 1.057 315.32	4.826 195.96	1.504 342.27	1.922 157.23	1.859 140.74
7	0.044 212.48	7 1.057 315.32	4.826 195.96	1.504 342.27	1.922 157.23	1.859 140.74
8	0.044 212.48	8 1.057 315.32	4.826 195.96	1.504 342.27	1.922 157.23	1.859 140.74
9	0.044 212.48	9 1.057 315.32	4.826 195.96	1.504 342.27	1.922 157.23	1.859 140.74
10	0.044 212.48	10 1.057 315.32	4.826 195.96	1.504 342.27	1.922 157.23	1.859 140.74

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

OCWT PERIODICITY TEST

FILE 161 ALPHA-MCL = 6.0 POP RUN-PT 31.09  
 RUN 31 ALPHA-BAR = 2.0 Q-COMP = 32.32  
 POINT 6 SIGMA = 90.0 Y-REF = 105.73  
 COMPUTED FREQUENCY = 19.20, K = .1510

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XZ=0G5  
SUCTION

N	CPREAL	CPIMAG
1	8.190	1.166
2	-1.490	6.715
3	-1.710	-6.697
4	-3.394	-1.133
5	-3.353	-3.115
6	-3.24	-4.17
7	-3.008	-1.148
8	1.155	.064
9	.002	-.027
10	-.036	.073

5

7

9

XZ=012  
SUCTION

N	CPREAL	CPIMAG
1	3.128	-17.819
2	-1.347	-6.956
3	-2.051	2.377
4	-.256	-.022
5	-.065	-.028
6	-.050	-.029
7	-.211	-.040
8	-.052	-.040
9	-.076	-.040
10	-.076	-.040

N	CPREAL	CPIMAG
1	-5.066	19.456
2	-1.678	-1.522
3	2.052	-1.167
4	1.707	-.079
5	1.578	-.079
6	-.179	-.079
7	-.157	-.079
8	-.014	-.079
9	.010	-.079
10	.010	-.079

N	CPREAL	CPIMAG
1	5.339	-2.490
2	-2.521	3.993
3	-.357	-.033
4	-.328	-.033
5	-.328	-.033
6	-.328	-.033
7	-.328	-.033
8	-.328	-.033
9	-.328	-.033
10	-.328	-.033

N	CPREAL	CPIMAG
1	-3.543	15.255
2	-1.094	2.716
3	-.393	-.033
4	-.393	-.033
5	-.393	-.033
6	-.393	-.033
7	-.393	-.033
8	-.393	-.033
9	-.393	-.033
10	-.393	-.033

XZ=030  
SUCTION

N	CPREAL	CPIMAG
1	14.293	3.047
2	12.373	-3.658
3	1.022	-1.433
4	-.584	-.850
5	-.103	-.038
6	-.103	-.038
7	-.103	-.038
8	-.103	-.038
9	-.103	-.038
10	-.103	-.038

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 161 ALPHA-MCL = 6.0 PDP RUN-PT 33.09  
 RUN 31 ALPHA-BAR = 2.0 O-COMP = 32.39  
 POINT 6 SIGMA = 90.0 V-REF = 149.74  
 COMPUTED FREQUENCY = 19.20, K = .1510

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=062 SUCTION	4										5										6										7										9									
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG								
1	1	1.553	-8.841	1	10.648	1.697	1	1.727	7.846	1	-6.358	-.751	1	1.231	1.306	1	1.920	10.127	1	1.920	10.127	1	1.920	10.127	1	1.920	10.127	1	1.920	10.127	1	1.920	10.127	1	1.920	10.127	1	1.920	10.127	1	1.920	10.127	1	1.920	10.127					
2	2	1.225	-2.409	2	1.707	-4.019	2	-.814	1.331	2	-.201	-.306	2	-.814	1.331	2	-.814	1.331	2	-.814	1.331	2	-.814	1.331	2	-.814	1.331	2	-.814	1.331	2	-.814	1.331	2	-.814	1.331	2	-.814	1.331	2	-.814	1.331	2	-.814	1.331					
3	3	1.579	-1.831	3	-2.435	1.403	3	-.852	1.070	3	-.011	-.139	3	-.852	1.070	3	-.852	1.070	3	-.852	1.070	3	-.852	1.070	3	-.852	1.070	3	-.852	1.070	3	-.852	1.070	3	-.852	1.070	3	-.852	1.070	3	-.852	1.070	3	-.852	1.070					
4	4	1.420	-.420	4	-1.153	-.118	4	-.621	-.201	4	-.018	-.021	4	-.621	-.201	4	-.621	-.201	4	-.621	-.201	4	-.621	-.201	4	-.621	-.201	4	-.621	-.201	4	-.621	-.201	4	-.621	-.201	4	-.621	-.201	4	-.621	-.201	4	-.621	-.201					
5	5	1.127	-.127	5	-.153	-.213	5	-.325	-.002	5	-.002	-.002	5	-.325	-.002	5	-.325	-.002	5	-.325	-.002	5	-.325	-.002	5	-.325	-.002	5	-.325	-.002	5	-.325	-.002	5	-.325	-.002	5	-.325	-.002	5	-.325	-.002	5	-.325	-.002					
6	6	1.156	-.156	6	-.049	-.266	6	-.155	-.015	6	-.010	-.010	6	-.155	-.015	6	-.155	-.015	6	-.155	-.015	6	-.155	-.015	6	-.155	-.015	6	-.155	-.015	6	-.155	-.015	6	-.155	-.015	6	-.155	-.015	6	-.155	-.015	6	-.155	-.015					
7	7	1.026	-.026	7	-.014	-.050	7	-.019	-.020	7	-.010	-.010	7	-.019	-.020	7	-.019	-.020	7	-.019	-.020	7	-.019	-.020	7	-.019	-.020	7	-.019	-.020	7	-.019	-.020	7	-.019	-.020	7	-.019	-.020	7	-.019	-.020	7	-.019	-.020					
8	8	1.023	-.023	8	-.010	-.099	8	-.002	-.007	8	-.026	-.003	8	-.002	-.007	8	-.026	-.003	8	-.026	-.003	8	-.026	-.003	8	-.026	-.003	8	-.026	-.003	8	-.026	-.003	8	-.026	-.003	8	-.026	-.003	8	-.026	-.003	8	-.026	-.003					
9	9	1.023	-.023	9	-.010	-.099	9	-.002	-.007	9	-.026	-.003	9	-.002	-.007	9	-.026	-.003	9	-.026	-.003	9	-.026	-.003	9	-.026	-.003	9	-.026	-.003	9	-.026	-.003	9	-.026	-.003	9	-.026	-.003	9	-.026	-.003	9	-.026	-.003					
10	10	1.023	-.023	10	-.010	-.099	10	-.002	-.007	10	-.026	-.003	10	-.002	-.007	10	-.026	-.003	10	-.026	-.003	10	-.026	-.003	10	-.026	-.003	10	-.026	-.003	10	-.026	-.003	10	-.026	-.003	10	-.026	-.003	10	-.026	-.003	10	-.026	-.003					

X=012 PRESSURE	4										5										6										7										9									
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG					
1	1	-2.179	6.385	1	2.341	-5.774	1	2.341	-5.774	1	8.030	2.986	1	2.341	-5.774	1	2.341	-5.774	1	2.341	-5.774	1	2.341	-5.774	1	2.341	-5.774	1	2.341	-5.774	1	2.341	-5.774	1	2.341	-5.774	1	2.341	-5.774	1	2.341	-5.774	1	2.341	-5.774					
2	2	1.399	-7.088	2	-.190	-.768	2	-.190	-.768	2	-.496	-1.087	2	-.190	-.768	2	-.190	-.768	2	-.190	-.768	2	-.190	-.768	2	-.190	-.768	2	-.190	-.768	2	-.190	-.768	2	-.190	-.768	2	-.190	-.768	2	-.190	-.768	2	-.190	-.768					
3	3	1.208	-.068	3	-.040	-.016	3	-.040	-.016	3	-.102	-.038	3	-.040	-.016	3	-.040	-.016	3	-.040	-.016	3	-.040	-.016	3	-.040	-.016	3	-.040	-.016	3	-.040	-.016	3	-.040	-.016	3	-.040	-.016	3	-.040	-.016	3	-.040	-.016					
4	4	1.085	-.028	4	-.013	-.005	4	-.013	-.005	4	-.037	-.009	4	-.013	-.005	4	-.013	-.005	4	-.013	-.005	4	-.013	-.005	4	-.013	-.005	4	-.013	-.005	4	-.013	-.005	4	-.013	-.005	4	-.013	-.005	4	-.013	-.005	4	-.013	-.005					
5	5	1.081	-.032	5	-.006	-.001	5	-.006	-.001	5	-.009	-.004	5	-.006	-.001	5	-.006	-.001	5	-.006	-.001	5	-.006	-.001	5	-.006	-.001	5	-.006	-.001	5	-.006	-.001	5	-.006	-.001	5	-.006	-.001	5	-.006	-.001	5	-.006	-.001					
6	6	1.022	-.037	6	-.001	-.006	6	-.001	-.006	6	-.005	-.003	6	-.001	-.006	6	-.001	-.006	6	-.001	-.006	6	-.001	-.006	6	-.001	-.006	6	-.001	-.006	6	-.001	-.006	6	-.001	-.006	6	-.001	-.006	6	-.001	-.006	6	-.001	-.006					
7	7	1.012	-.033	7	-.011	-.011	7	-.011	-.011	7	-.007	-.004	7	-.011	-.011	7	-.011	-.011	7	-.011	-.011	7	-.011	-.011	7	-.011	-.011	7	-.011	-.011	7	-.011	-.011	7	-.011	-.011	7	-.011	-.011	7	-.011	-.011	7	-.011	-.011					
8	8	1.011	-.031	8	-.011	-.009	8	-.011	-.009	8	-.007	-.004	8	-.011	-.011	8	-.011	-.011	8	-.011	-.011	8	-.011	-.011	8	-.011	-.011	8	-.011	-.011	8	-.011	-.011	8	-.011	-.011	8	-.011	-.011	8	-.011	-.011	8	-.011	-.011					
9	9	1.011	-.031	9	-.011	-.009	9	-.011	-.009	9	-.007	-.004	9	-.011	-.011	9	-.011	-.011	9	-.011	-.011	9	-.011	-.011	9	-.011	-.011	9	-.011	-.011	9	-.011	-.011	9	-.011	-.011	9	-.011	-.011	9	-.011	-.011	9	-.011	-.011					
10	10	1.011	-.031	10	-.011	-.009	10	-.011	-.009	10	-.007	-.004	10	-.011	-.011	10	-.011	-.011	10	-.011	-.011	10	-.011	-.011	10	-.011	-.011	10	-.011	-.011	10	-.011	-.011	10	-.011	-.011	10	-.011	-.011	10	-.011	-.011	10	-.011	-.011					

X=012  
PRESSURE

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062			W4 .125			W5 .250			W7 .750			W8 .875			W9 .938		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	15.743	-2.928	1	12.236	-1.652	1	4.945	-1.525	1	2.166	-.762	1	2.161	-.872	1	2.042	-.953
2	2	1.898	-1.854	2	1.138	-1.385	2	.452	-.064	2	.028	-.093	2	.381	-.071	2	.052	-.122
3	3	1.045	-.045	3	-.754	-.271	3	.064	-.015	3	-.005	-.005	3	.015	-.007	3	-.007	-.064
4	4	1.000	-.000	4	-.155	-.047	4	.015	-.008	4	-.005	-.005	4	-.005	-.007	4	-.007	-.051
5	5	1.000	-.000	5	-.155	-.047	5	-.008	-.004	5	-.005	-.005	5	-.005	-.007	5	-.007	-.022
6	6	1.000	-.000	6	-.155	-.047	6	-.004	-.004	6	-.005	-.005	6	-.005	-.007	6	-.007	-.012
7	7	1.000	-.000	7	-.155	-.047	7	-.004	-.004	7	-.005	-.005	7	-.005	-.007	7	-.007	-.011
8	8	1.000	-.000	8	-.155	-.047	8	-.002	-.002	8	-.005	-.005	8	-.005	-.007	8	-.007	-.009
9	9	1.000	-.000	9	-.155	-.047	9	.002	-.008	9	-.005	-.005	9	-.005	-.007	9	-.007	-.009
10	10	1.000	-.000	10	-.155	-.047	10	.008	-.003	10	-.005	-.005	10	-.005	-.007	10	-.007	-.009

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 161 ALPHA-HCL = 6.0 PDP RUN.PT 31.09  
 RUN 31 ALPHA-BAR = 2.0 O-COMP = 32.39  
 POINT 6 SIGMA = 90. V-REF = 199.74  
 C COMPUTED FREQUENCY = 19.20, K = .1510

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE

\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=005  
 SUCTION

9

7

6

5

3

N	CP-MAG	PHI
1	9.272	188.10
2	6.878	102.31
3	4.995	44.47
4	.416	198.63
5	.473	41.74
6	.528	307.86
7	.148	87.04
8	.176	21.15
9	.027	93.74
10	.082	116.06

X=012 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	17.697	190.18	1	23.380	197.12	1	25.943	192.52	1	25.065	192.30	1	18.596	190.98				
2	17.085	100.76	2	1.783	150.73	2	2.698	231.68	2	.677	302.29	2	12.929	291.89				
3	3.598	214.76	3	1.783	211.41	3	2.958	231.68	3	.563	355.63	3	.394	338.63				
4	.439	125.61	4	2.361	330.39	4	.344	318.97	4	.411	309.39	4	.411	317.40				
5	.284	258.80	5	1.716	87.07	5	.331	229.88	5	.061	82.56	5	.076	151.90				
6	.304	288.47	6	.584	187.82	6	.110	152.66	6	.148	297.78	6	.118	182.11				
7	.057	61.54	7	.277	139.77	7	.202	317.93	7	.046	108.69	7	.029	199.13				
8	.212	354.83	8	.361	244.23	8	.107	95.93	8	.025	211.59	8	.014	320.48				
9	.065	127.50	9	.157	354.95	9	.047	101.94	9	.025	60.76	9	.014	192.76				
10	.114	48.50	10	.078	166.62	10	.047	101.94	10	.025	99.76	10	.014	192.76				

X=030  
 SUCTION

N	CP-MAG	PHI
1	14.615	192.03
2	4.360	302.97
3	4.464	116.68
4	1.754	305.20
5	1.031	305.49
6	.110	250.32
7	.308	68.57
8	.104	170.80
9	.059	86.32
10	.059	161.54

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 161 ALPHA-MCL = 6.0 PDP RUN PT 31.09  
 RUN 31 ALPHA-BAR = 2.0 Q-COMP = 32.439  
 POINT 6 SIGMA = 90.0 V-REF = 199.74  
 FOURIER COEFFICIENTS, AMPLITUDE C UNBIASED PHASE ANGLE = 19.20, K = .1510  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	8.976 189.96	10.282 189.06	8.034 192.41	6.402 186.74	6.785 185.16	5.777 188.38
2	2.702 296.95	4.366 293.01	1.562 301.46	3.406 279.42	1.059 183.12	1.002 167.13
3	2.191 333.33	2.810 329.93	1.028 348.78	1.112 279.96	1.092 195.96	1.001 210.51
4	1.186 145.60	1.893 133.21	1.028 252.07	1.027 131.32	1.049 194.79	1.001 238.56
5	1.433 155.91	1.93 37.74	1.653 359.70	1.011 179.40	1.027 155.02	1.005 285.67
6	1.101 220.26	1.387 146.57	1.600 190.49	1.011 219.98	1.012 137.16	1.005 263.73
7	1.157 220.26	1.270 256.97	1.020 186.59	1.011 219.98	1.012 137.16	1.005 263.73
8	1.042 142.19	1.111 43.98	1.020 186.59	1.011 219.98	1.012 137.16	1.005 263.73
9	1.042 142.19	1.111 43.98	1.020 186.59	1.011 219.98	1.012 137.16	1.005 263.73
10	1.062 68.15	1.099 84.11	1.007 257.50	1.027 353.47	1.016 120.22	1.011 300.53
X=012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	6.746 18.84	1.234 22.07	1.567 20.43	1.039 20.43	1.039 20.43	1.039 20.43
2	2.34 244.38	1.26 280.82	1.044 139.33	1.044 139.33	1.044 139.33	1.044 139.33
3	2.34 244.38	1.26 280.82	1.044 139.33	1.044 139.33	1.044 139.33	1.044 139.33
4	2.34 244.38	1.26 280.82	1.044 139.33	1.044 139.33	1.044 139.33	1.044 139.33
5	2.34 244.38	1.26 280.82	1.044 139.33	1.044 139.33	1.044 139.33	1.044 139.33
6	2.34 244.38	1.26 280.82	1.044 139.33	1.044 139.33	1.044 139.33	1.044 139.33
7	2.34 244.38	1.26 280.82	1.044 139.33	1.044 139.33	1.044 139.33	1.044 139.33
8	2.34 244.38	1.26 280.82	1.044 139.33	1.044 139.33	1.044 139.33	1.044 139.33
9	2.34 244.38	1.26 280.82	1.044 139.33	1.044 139.33	1.044 139.33	1.044 139.33
10	2.34 244.38	1.26 280.82	1.044 139.33	1.044 139.33	1.044 139.33	1.044 139.33

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	13	125	250	750	875	938
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
16	0.13 190.54	12.347 187.69	5.146 196.08	2.296 160.61	2.338 158.80	2.338 158.80
12	0.75 173.04	1.847 207.08	1.455 325.98	1.020 286.86	1.020 286.86	1.020 286.86
3	0.75 173.04	1.847 207.08	1.455 325.98	1.020 286.86	1.020 286.86	1.020 286.86
4	0.75 173.04	1.847 207.08	1.455 325.98	1.020 286.86	1.020 286.86	1.020 286.86
5	0.75 173.04	1.847 207.08	1.455 325.98	1.020 286.86	1.020 286.86	1.020 286.86
6	0.75 173.04	1.847 207.08	1.455 325.98	1.020 286.86	1.020 286.86	1.020 286.86
7	0.75 173.04	1.847 207.08	1.455 325.98	1.020 286.86	1.020 286.86	1.020 286.86
8	0.75 173.04	1.847 207.08	1.455 325.98	1.020 286.86	1.020 286.86	1.020 286.86
9	0.75 173.04	1.847 207.08	1.455 325.98	1.020 286.86	1.020 286.86	1.020 286.86
10	0.75 173.04	1.847 207.08	1.455 325.98	1.020 286.86	1.020 286.86	1.020 286.86



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 175 ALPHA-MCL = 6.0 POP RUN PT 34.02  
 ROW 34 ALPHA-BAR = 2.0 O-COMP = 32904  
 POINT 2 SIGMA = 135. V-REF = 201.16  
 COMPUTED FREQUENCY = 9.11, K = .0712

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XZ-COS  
 SUCTION

N	CPREAL	CPIMAG
1	-.520	-9.339
2	.969	-7.364
3	-.283	.780
4	-.344	.894
5	-.056	.866
6	-.185	.299
7	.263	.487
8	.296	-.359
9	-.295	-.008
10	-.135	.172

XZ-012  
 SUCTION

N	CPREAL	CPIMAG
1	2.318	-14.838
2	1.446	-5.510
3	-1.474	4.427
4	1.034	-1.369
5	.117	-.542
6	-.548	.507
7	-.279	.653
8	.072	.076
9	.328	-.104
10	.328	-.104

XZ-030  
 SUCTION

N	CPREAL	CPIMAG
1	1.723	-13.218
2	-1.102	2.791
3	.172	1.044
4	1.075	-2.182
5	-.810	.112
6	-.057	.067
7	.490	-.592
8	-.375	.371
9	-.076	-.030
10	.191	-.070

9

7

6

5

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	22.616	-15.777	1	-11.474	-14.929	1	22.616	-15.777
2	-4.475	-1.791	2	3.437	.947	2	-4.475	-1.791
3	-.212	-.072	3	-.624	.211	3	-.212	-.072
4	-.656	.152	4	-.120	.429	4	-.656	.152
5	.692	-.015	5	-.020	.335	5	.692	-.015
6	.135	-.059	6	.004	.056	6	.135	-.059
7	-.059	.186	7	.192	.065	7	-.059	.186
8	.061	.152	8	.131	.038	8	.061	.152
9	-.122	-.139	9	-.008	.038	9	-.122	-.139
10	-.078	.087	10	.002	-.005	10	-.078	.087

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 175 ALPHA-MCL = 6.0 PDP RUN-PT 34.02  
 RUN 34 ALPHA-BAR = 2.0 O-COMP = .32904  
 POINT 2 SIGMA = 135. V-REF = 201.16  
 COMPUTED FREQUENCY = 9.11, K = .0712

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=.062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	-7.419	6.965	1	1.329	-11.368	1	6.686	8.376	1	-6.564	-	1	5.862	-4.212	1	-3.605	-4.114
2	2	-3.110	-1.824	2	1.207	-4.087	2	3.308	1.000	2	-.442	-.006	2	-.261	-.176	2	-.328	-.081
3	3	-1.584	-1.859	3	-1.007	-2.029	3	2.082	1.725	3	-.208	-.060	3	-.205	-.061	3	-.138	-.061
4	4	-.607	-1.437	4	-.372	-.338	4	.933	-1.255	4	-.040	.144	4	-.077	-.001	4	-.059	-.022
5	5	-.183	-.099	5	-.318	-.876	5	.112	1.589	5	-.029	.002	5	-.100	-.094	5	-.023	-.116
6	6	-.330	-.347	6	-.541	-.866	6	-.023	1.188	6	.015	-.128	6	-.029	-.085	6	-.007	-.058
7	7	-.006	-.356	7	-.058	-.379	7	.269	-.069	7	-.032	.086	7	-.054	-.082	7	-.000	-.007
8	8	-.166	-.114	8	-.151	-.103	8	.061	-.223	8	-.032	.040	8	-.034	-.009	8	-.010	-.014
9	9	-.099	-.017	9	-.192	-.103	9	.015	-.269	9	-.049	-.010	9	-.020	-.009	9	-.010	-.014
10	10			10			10		-.100	10			10	-.010	-.047	10	-.017	-.015
X=.012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	1	6.192	-4.223	1	4.294	-5.830	1	9.768	-5.830	1	-11.381	2.080	1	10.010	10.010	1	2.671	11.180
2	2	-.311	-.108	2	1.358	-.049	2	-.513	-.049	2	-.513	-.219	2	-.675	-.525	2	2.167	-.495
3	3	-.247	-.118	3	-.115	-.119	3	-.081	-.119	3	-.081	-.227	3	-.254	-.469	3	2.682	-.545
4	4	-.009	-.053	4	-.029	-.081	4	-.053	-.053	4	-.113	-.032	4	-.081	-.171	4	3.100	-.555
5	5	-.057	-.101	5	-.072	-.053	5	-.019	-.053	5	-.024	-.096	5	-.158	-.043	5	3.001	-.559
6	6	-.068	-.076	6	-.042	-.004	6	-.011	-.004	6	-.011	-.057	6	-.045	-.018	6	3.047	-.571
7	7	-.034	-.032	7	-.000	-.019	7	-.052	-.019	7	-.052	-.057	7	-.035	-.010	7	3.047	-.571
8	8	-.039	-.094	8	-.037	-.023	8	-.042	-.023	8	-.042	-.063	8	-.043	-.001	8	3.048	-.573
9	9	-.006	-.042	9	-.005	-.043	9	-.007	-.043	9	-.022	-.007	9	-.022	-.114	9	3.046	-.573
10	10	-.001	-.000	10	-.004	-.001	10	-.006	-.001	10	-.006	-.004	10	-.071	-.030	10	3.023	-.573

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .675	W9 .938
N	CPREAL	CPREAL	N	CPREAL	N	CPREAL
1	-16.874	-12.814	-5.207	-2.772	-2.254	-2.156
2	-1.384	-1.003	-.262	-.268	-.283	-.270
3	-.208	-1.153	-.288	-.288	-.257	-.235
4	-.065	-1.153	-.027	-.106	-.045	-.032
5	-.177	-.061	-.010	-.106	-.086	-.062
6	-.063	-.061	-.023	-.074	-.047	-.043
7	-.152	-.060	-.028	-.030	-.047	-.035
8	-.033	-.060	-.068	-.046	-.052	-.033
9	-.080	-.049	-.006	-.016	-.021	-.024
10	-.062	-.038	-.007	-.019	-.021	-.019

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 175 ALPHA-MCL = 6.0 PDP RUN-PI 34.02  
 RUN 34 ALPHA-BAR = 2.0 Q-COMP = 32904  
 POINT 2 SIGMA = 135. V-REF = 201.16  
 COMPUTED FREQUENCY = 9.11, K = .0712

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

9

7

6

5

4

3

N	CP-MAG	PHI
1	9.353	183.18
2	7.427	97.50
3	.830	199.91
4	.958	111.01
5	.867	31.71
6	.351	301.63
7	.554	328.17
8	.435	308.39
9	.295	91.59
10	.218	308.12

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	19.002	184.98	1	15.018	188.88	1	20.323	187.08	1	27.516	190.10	1	18.829	187.46
2	16.631	190.00	2	15.666	198.71	2	4.058	161.95	2	4.022	191.81	2	3.565	185.41
3	4.800	192.21	3	.666	198.42	3	3.021	201.91	3	.224	153.84	3	.688	285.57
4	.322	139.47	4	.635	132.59	4	1.503	301.16	4	1.708	305.57	4	.443	286.98
5	.563	206.20	5	1.879	213.38	5	1.242	403.13	5	.136	57.41	5	.336	41.64
6	.326	297.21	6	.555	102.23	6	1.462	286.51	6	.195	263.49	6	.017	12.52
7	.443	10.98	7	.747	227.15	7	1.238	51.43	7	.163	68.10	7	.201	157.57
8	.246	305.65	8	.105	111.11	8	1.196	148.74	8	.225	102.22	8	.146	157.57
9	.149	34.18	9	.345	162.38	9	.507	163.34	9	.117	222.02	9	.085	181.35
10	.177	337.69	10	.345	162.38	10	.507	163.34	10	.117	222.02	10	.085	181.35

X=.030  
 SUCTION

N	CP-MAG	PHI
1	13.330	187.43
2	13.008	189.38
3	1.058	296.22
4	.432	311.68
5	.547	310.32
6	.746	41.37
7	.528	135.29
8	.081	168.62
9	.203	159.84
10		



OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 178 ALPHA-MCL = 5.0 PDP RUN.PI 34.04  
RUN 34 ALPHA-BAR = 13.0 O-COMP = 32726  
POINT 4 SIGMA = 200.61  
COMPUTED FREQUENCY = 15.44, K = .1209

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
SUCTION

5 6 7 8 9 10  
N CPREAL CPIMAG  
1 .974-10.895  
2 .475-7.164  
3 .402-.671  
4 -.330-.916  
5 .136-.565  
6 .020-.252  
7 .231-.278  
8 .121-.241  
9 .187-.071  
10 -.130-.034

X=.012  
SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG			
1	15.581	12.535	1	12.843	15.770	1	26.062	-2.823	1	22.270	-1.636	1	11.618	-15.079
2	3.343	3.533	2	2.258	1.144	2	3.569	-.853	2	4.722	-.097	2	3.335	1.009
3	3.392	3.487	3	2.258	2.380	3	3.569	-.853	3	4.722	-.097	3	3.335	1.009
4	3.476	3.295	4	2.258	2.905	4	3.569	-.853	4	4.722	-.097	4	3.335	1.009
5	3.450	3.312	5	2.258	1.646	5	3.569	-.853	5	4.722	-.097	5	3.335	1.009
6	3.421	3.121	6	2.258	1.446	6	3.569	-.853	6	4.722	-.097	6	3.335	1.009
7	3.392	3.047	7	2.258	1.259	7	3.569	-.853	7	4.722	-.097	7	3.335	1.009
8	3.363	2.975	8	2.258	1.072	8	3.569	-.853	8	4.722	-.097	8	3.335	1.009
9	3.335	2.901	9	2.258	0.885	9	3.569	-.853	9	4.722	-.097	9	3.335	1.009
10	3.307	2.827	10	2.258	0.698	10	3.569	-.853	10	4.722	-.097	10	3.335	1.009

X=.030  
SUCTION

5 6 7 8 9 10  
N CPREAL CPIMAG  
1 .818-13.946  
2 -.1369-3.372  
3 .509-.443  
4 .544-2.014  
5 .560-1.322  
6 .569-.938  
7 .576-.633  
8 .581-.337  
9 .586-.067  
10 .591

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 177 ALPHA-MCL = 6.0 POP RUN-PT 34.04  
 RUN 34 ALPHA-BAR = 135.0 O-COMP = .32726  
 POINT 4 SIGMA = 135.0 V-REF = 200.61  
 COMPUTED FREQUENCY = 15.44, K = .1209

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3				4				5				6				7				9			
X=062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	-6.575	-5.948	1	1.114	-12.045	1	7.000	7.673	1	-6.608	-.628	1	5.933	-5.029	1	-3.628	-4.756						
	2	-2.406	-.200	2	-.950	-4.545	2	3.311	.784	2	.219	.265	2	.057	.102	2	.064	.213						
	3	-1.385	-1.108	3	-.980	-2.561	3	2.148	-1.538	3	-.004	-.020	3	.032	.036	3	.133	-.090						
	4	.232	-.123	4	-.450	.665	4	2.380	-.617	4	-.013	.014	4	.046	-.019	4	.006	-.052						
	5	.223	.440	5	.179	.561	5	-.062	-.154	5	-.019	-.063	5	.019	-.019	5	.021	-.077						
	6	.004	.033	6	.106	.441	6	.104	-.159	6	.019	.001	6	.012	.035	6	.005	-.003						
	7	.240	.114	7	-.106	-.094	7	.024	-.171	7	.019	.001	7	.012	.009	7	.010	-.003						
	8	-.112	-.187	8	.057	-.063	8	-.089	-.261	8	.006	-.012	8	.006	-.006	8	.009	-.003						
	9	.143	-.143	9	.057	.063	9	-.023	-.022	9	-.007	-.016	9	.008	.011	9	.009	-.012						
	10	.033	-.007	10	-.079	.036	10	-.023	-.022	10	-.007	-.016	10	.008	.011	10	-.012	-.012						
X=012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	6.215	-4.687	1	-4.425	-6.786	1	-4.425	-6.786	1	9.848	1.373	1	-10.255	9.692	1	7.895	10.095						
	2	-.357	-.119	2	1.179	-.309	2	1.179	-.309	2	.464	-.822	2	.440	.455	2	2.910	-.931						
	3	-.090	-.314	3	-.010	.089	3	-.010	.089	3	-.027	-.088	3	.041	.019	3	.719	-.661						
	4	-.081	.055	4	.033	.004	4	.033	.004	4	-.014	.008	4	.087	.063	4	.189	-.719						
	5	-.049	.050	5	.011	.006	5	.011	.006	5	.001	.009	5	.019	.001	5	.161	-.601						
	6	-.039	.036	6	.021	.037	6	.021	.037	6	.008	.017	6	.030	.046	6	.072	-.003						
	7	-.001	.012	7	.014	.021	7	.014	.021	7	.016	.017	7	.017	.023	7	.000	-.000						
	8	-.007	.015	8	.010	.015	8	.010	.015	8	.009	.019	8	.016	.021	8	.016	-.025						
	9	-.011	-.014	9	-.014	-.014	9	-.014	-.014	9	.016	.008	9	.011	.006	9	.016	-.025						
	10			10			10			10	.016	.016	10	.022	.006	10	.026	-.032						

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938		
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-16.703	-1.473	1	-12.882	-1.159	1	-2.423	-0.133
2	.498	-2.776	2	-.658	-.648	2	.423	.120
3	.209	.043	3	-.082	.081	3	.109	.102
4	.006	.335	4	-.081	-.081	4	.023	.029
5	.295	-.019	5	-.047	-.021	5	.013	.004
6	.081	.030	6	-.047	.050	6	.031	.006
7	.104	-.029	7	.002	.014	7	.010	.011
8	.008	-.025	8	.002	.007	8	.021	.022
9	-.002	-.025	9	-.004	.004	9	.003	.003
10			10			10		

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 177 ALPHA-MCL = 6.0 PDP RUN/PT 34.04  
 RUN 34 ALPHA-MCL = 2.0 O-COMP = 32726  
 POINT 4 SIGMA = 135. W-REF = 200.61  
 COMPUTED FREQUENCY = 15.44, K = .1209

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

9

7

6

5

3

N	CP-MAG	PHI
1	19.938	185.11
2	19.180	193.19
3	782	149.10
4	972	109.82
5	581	346.11
6	253	265.53
7	443	31.40
8	270	296.72
9	200	69.25
10	134	345.44

X=.012 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	19.997	186.18	1	16.747	190.41	1	20.339	185.84	1	26.215	186.18	1	27.798	186.24	1	19.036	187.39	
2	5.348	87.35	2	15.189	100.67	2	1.173	12.93	2	3.670	14.28	2	4.958	287.77	2	3.221	288.20	
3	4.682	181.17	3	4.317	188.63	3	3.305	178.93	3	3.840	193.44	3	1.209	22.97	3	.382	16.10	
4	.539	191.74	4	1.689	149.00	4	2.996	284.16	4	1.797	183.52	4	1.069	300.64	4	.390	292.24	
5	.334	201.24	5	1.771	207.08	5	1.148	21.35	5	.512	116.26	5	.677	54.12	5	.298	25.32	
6	.226	247.41	6	.227	124.24	6	.894	171.55	6	.216	122.36	6	.134	278.12	6	.049	178.28	
7	.076	217.15	7	.514	212.94	7	.892	130.34	7	.216	122.36	7	.048	219.84	7	.047	158.92	
8	.167	18.58	8	.244	103.94	8	.313	232.61	8	.145	165.27	8	.084	53.15	8	.054	272.48	
9	.044	113.93	9	.141	126.13	9	.126	149.95	9	.087	188.15	9	.029	222.34	9	.097	149.08	
10			10	.165	126.13	10			10			10			10			

X=.030  
 SUCTION

N	CP-MAG	PHI
1	14.064	187.43
2	33.639	292.10
3	2.674	151.06
4	2.086	285.10
5	1.435	22.95
6	1.109	144.90
7	.469	143.94
8	.312	137.02
9	.066	133.83
10	.066	133.83

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 177 ALPHA-MCL = 6.0 POP RUN-PT 34.04  
 RUN 34 ALPHA-BAR = 2.0 Q-COMP = .32726  
 POINT 4 SIGMA = 135. V-REF = 200.61  
 COMPUTED FREQUENCY = 15.44. K = .1209  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
XS-.062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	8.865 182.87	12.096 185.29	10.387 152.63	6.538 185.43	7.778 184.72	5.981 187.66
2	2.414 265.25	2.643 281.81	4.002 283.32	.538 250.77	.117 150.55	.222 151.23
3	1.774 353.65	2.742 220.93	2.509 133.90	.021 258.37	.048 129.25	.134 221.97
4	1.257 379.38	.803 124.04	1.585 107.89	.019 226.65	.050 129.84	.020 223.26
5	1.493 161.84	.565 353.68	1.647 326.46	.019 238.34	.049 117.06	.056 202.61
6	.033 186.84	.759 193.66	.185 168.07	.075 218.81	.041 203.48	.030 205.96
7	.266 160.30	.453 193.48	.172 275.01	.019 244.97	.033 189.52	.018 208.57
8	.218 231.13	.102 222.39	.272 19.11	.013 245.89	.022 189.22	.031 208.57
9	.149 331.53	.085 355.46	.184 133.08	.018 245.89	.009 235.23	.016 235.49
10	.034 77.36	.087 355.46	.032 133.08	.018 245.89	.013 235.23	.016 235.49
XS-.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	7.784 7.97	1 8.101 11.90	1 9.943 7.94	1 9.943 7.94	1 14.076 1.77	1 12.777 6.83
2	.376 289.53	1.244 284.14	1.006 355.60	1.006 355.60	.635 43.96	.544 291.02
3	.327 29.02	.275 355.60	.069 128.33	.092 352.77	.541 122.88	.124 109.72
4	.125 197.39	.069 128.33	.033 156.95	.016 83.44	.075 355.75	.019 107.99
5	.113 44.42	.028 156.95	.009 116.52	.009 116.52	.133 188.75	.106 300.19
6	.070 357.51	.027 302.29	.019 214.13	.019 214.13	.075 111.82	.072 327.20
7	.053 263.13	.025 379.12	.019 214.13	.019 214.13	.035 233.16	.048 177.95
8	.012 110.62	.019 214.13	.021 26.41	.021 26.41	.028 259.52	.029 320.07
9	.017 110.62	.020 133.04			.019 104.84	
10	.018 323.42				.022 104.84	

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 N CP-MAG PHI	W4 N CP-MAG PHI	W5 N CP-MAG PHI	W7 N CP-MAG PHI	W8 N CP-MAG PHI	W9 N CP-MAG PHI
1	19.768 187.04	12.930 184.93	5.246 196.13	2.378 181.98	2.229 181.98	2.133 179.83
2	.213 11.53	1.785 291.66	.129 49.90	.378 341.44	.266 351.02	.133 171.00
3	.335 91.07	.654 279.12	.020 183.32	.121 192.52	.111 188.96	.108 179.15
4	.296 197.74	.084 194.47	.026 222.10	.030 220.00	.019 215.96	.023 170.98
5	.086 159.83	.177 254.51	.074 211.41	.029 220.00	.014 192.36	.022 185.78
6	.108 195.63	.053 232.58	.051 338.39	.009 235.02	.010 172.36	.011 185.78
7	.033 296.10	.005 393.48	.015 242.77	.029 235.02	.035 233.78	.032 176.46
8	.026 251.56	.045 137.35	.022 260.77	.006 224.53	.003 233.78	.003 176.46
9	.040 218.05					
10						



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 179 ALPHA-NCL = 6.0 POP RUN.PI 34.06  
 RUN 34 ALPHA-BAR = 2.0 O-COMP = 32854  
 POINT 6 SIGMA = 135 V-REV = 201.01  
 COMPUTED FREQUENCY = 19.10, K = .1492

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

N	CPREAL	CPIMAG
1	1.191	-10.721
2	-.253	-7.441
3	-.444	.270
4	-.220	.508
5	-.103	.516
6	-.177	.241
7	-.108	-.275
8	-.027	-.175
9	-.457	-.059
10	-.042	-.026

X=.012  
 SUCTION

N	CPREAL	CPIMAG
1	2.992	-16.517
2	-.236	-5.314
3	-.138	-.128
4	-.441	-.135
5	-.158	-1.453
6	-.222	-.175
7	-.106	-.282
8	-.071	-.114
9	-.144	-.382
10	-.110	-.013

X=.030  
 SUCTION

N	CPREAL	CPIMAG
1	1.510	-13.788
2	-1.026	-3.199
3	-.510	-.321
4	-.133	-1.953
5	-.173	-1.181
6	-.093	-.021
7	-.188	-.354
8	-.149	-.179
9	-.032	-.041
10	-.094	-.024

N	CPREAL	CPIMAG
1	12.788	16.210
2	-.281	1.022
3	-1.889	2.567
4	-.289	2.653
5	-.809	1.204
6	-.591	.300
7	-.236	.495
8	-.030	.084
9	-.089	-.163
10	-.089	-.163

N	CPREAL	CPIMAG
1	25.942	-2.153
2	-.130	-.120
3	-3.593	-.617
4	-.222	-.814
5	-.369	-.193
6	-.024	-.067
7	-.156	-.087
8	-.152	-.061
9	-.083	-.024
10	-.041	-.024

N	CPREAL	CPIMAG
1	21.444	-16.215
2	-.439	-1.249
3	-.153	-.900
4	-.539	-.116
5	-.095	-.109
6	-.101	-.141
7	-.088	-.101
8	-.079	-.020
9	-.079	-.020
10	-.011	-.031

N	CPREAL	CPIMAG
1	12.788	16.210
2	-.281	1.022
3	-1.889	2.567
4	-.289	2.653
5	-.809	1.204
6	-.591	.300
7	-.236	.495
8	-.030	.084
9	-.089	-.163
10	-.089	-.163

N	CPREAL	CPIMAG
1	25.942	-2.153
2	-.130	-.120
3	-3.593	-.617
4	-.222	-.814
5	-.369	-.193
6	-.024	-.067
7	-.156	-.087
8	-.152	-.061
9	-.083	-.024
10	-.041	-.024

N	CPREAL	CPIMAG
1	21.444	-16.215
2	-.439	-1.249
3	-.153	-.900
4	-.539	-.116
5	-.095	-.109
6	-.101	-.141
7	-.088	-.101
8	-.079	-.020
9	-.079	-.020
10	-.011	-.031

# OCWT PERIODICITY TEST MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 179 ALPHA-MCL = 6.0 POP RUN-PT 34.06  
 RUN 34 ALPHA-BAR = 2.0 O-COMP = 32854  
 POINT 6 SIGMA = 135. V-REF = 201.01  
 COMPUTED FREQUENCY = 19.10, K = .1492

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3			4			5			6			7			9		
X=062 SUCTION	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	-6.157	-6.092	1	3.945	7.937	1	-6.786	-1.129	1	5.670	-4.595	1	-3.998	-4.310			
	2	-2.221	-2.239	2	3.109	1.157	2	-0.046	-0.077	2	-0.072	-0.107	2	-0.042	-0.012			
	3	-1.340	-1.905	3	1.709	-1.157	3	-0.057	-0.081	3	-0.046	-0.050	3	-0.005	-0.017			
	4	-1.307	-1.405	4	-0.912	-1.529	4	-0.043	-0.068	4	-0.020	-0.008	4	-0.009	-0.012			
	5	-1.181	-1.133	5	-0.375	-1.515	5	-0.044	-0.068	5	-0.020	-0.011	5	-0.007	-0.017			
	6	-0.866	-0.013	6	-0.190	-0.098	6	-0.041	-0.055	6	-0.032	-0.023	6	-0.027	-0.011			
	7	-0.086	-0.054	7	-0.035	-0.051	7	-0.019	-0.003	7	-0.010	-0.006	7	-0.019	-0.011			
	8	-0.088	-0.002	8	-0.026	-0.105	8	-0.019	-0.003	8	-0.010	-0.006	8	-0.019	-0.011			
	9	-0.088	-0.183	9	-0.120	-0.143	9	-0.024	-0.003	9	-0.005	-0.033	9	-0.012	-0.029			
	10	-0.091	-0.059	10	-0.120	-0.135	10	-0.024	-0.003	10	-0.005	-0.033	10	-0.012	-0.029			
X=012 PRESSURE	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
	1	6.006	-3.946	1	-4.915	-6.225	1	9.788	1.900	1	-9.565	10.213	1	7.693	10.238			
	2	-3.331	-3.306	2	-0.998	-0.258	2	3.371	-1.185	2	-0.043	-0.043	2	2.084	-0.504			
	3	-0.370	-1.118	3	-0.044	-0.334	3	-0.017	-0.250	3	-0.065	-0.189	3	-0.585	-0.590			
	4	-0.065	-0.065	4	-0.022	-0.075	4	-0.099	-0.053	4	-0.027	-0.065	4	-0.082	-0.583			
	5	-0.024	-0.016	5	-0.019	-0.031	5	-0.008	-0.016	5	-0.027	-0.009	5	-0.137	-0.273			
	6	-0.020	-0.020	6	-0.019	-0.005	6	-0.020	-0.025	6	-0.027	-0.028	6	-0.025	-0.018			
	7	-0.007	-0.007	7	-0.011	-0.012	7	-0.001	-0.020	7	-0.031	-0.022	7	-0.028	-0.018			
	8	-0.028	-0.062	8	-0.020	-0.020	8	-0.001	-0.020	8	-0.004	-0.029	8	-0.051	-0.079			
	9	-0.047	-0.062	9	-0.011	-0.020	9	-0.036	-0.000	9	-0.004	-0.017	9	-0.009	-0.051			
	10	-0.070	-0.012	10	-0.020	-0.026	10	-0.036	-0.000	10	-0.004	-0.017	10	-0.009	-0.051			

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W9 .938									
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1-16	.669	-.619	-1-12	.843	-.270	-1-5	.286	-1-.082	1-2	.396	-.622	1-2	.299	-.683
2-4	.095	-.027	-2-20	.204	-1.845	2-253	.048	-.324	2-1	.122	-.116	2-1	.144	-.107
3-4	.065	-.296	-3-775	-.775	-0.220	3-048	.015	-.136	3-1	.070	-.111	3-1	.096	-.105
4-6	.089	-.004	-4-127	-.127	-0.005	4-015	-.047	-.047	4-1	.016	-.028	4-1	.011	-.005
5-9	.079	-.014	-5-032	-.133	-0.005	5-015	-.011	-.011	5-1	.006	-.008	5-1	.002	-.005
6-9	.022	-.027	-6-013	-.027	-0.012	6-005	-.019	-.019	6-1	.019	-.023	6-1	.017	-.011
7-8	.037	-.030	-7-027	-.029	-0.013	7-013	-.003	-.003	7-1	.003	-.009	7-1	.001	-.003
8-9	.053	-.005	-8-001	-.001	-0.022	8-014	-.035	-.035	8-1	.003	-.009	8-1	.000	-.005
9-10	.034	-.005	-9-001	-.001	-0.022	9-014	-.035	-.035	9-1	.003	-.009	9-1	.000	-.005
10			-10			10			10			10		

MODE 2 -- LEADING EDGE PLANE DATA WALL STATIONS

FILE 179 ALPHA-MCL = 5.0 POP RUN-PT 34.06  
 RUN 34 ALPHA-BAR = 2.0 O-COMP = .32854  
 PGINT 6 SIGMA = 135. N-REF = 201.01  
 COMPUTED FREQUENCY = 19.10. K = .1492

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
 SUCTION

N	CP-MAG	PHI
1	10.787	186.34
2	7.446	188.06
3	.520	121.26
4	.935	103.62
5	.526	348.74
6	.299	233.79
7	.313	28.26
8	.177	278.86
9	.135	57.78
10	.049	328.64

X=.012 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI		
1	20.232	185.29	1	20.623	186.82	1	26.031	184.74	1	26.945	187.74	1	19.277	189.79
2	5.055	188.57	2	1.060	15.39	2	.177	42.62	2	4.650	287.33	2	3.150	282.40
3	.158	176.45	3	3.187	171.34	3	3.646	189.74	3	.172	162.92	3	.349	339.55
4	.863	126.46	4	2.665	275.32	4	.846	285.26	4	1.049	100.92	4	.422	285.67
5	.222	168.34	5	1.449	11.22	5	.416	207.65	5	.558	46.83	5	.257	231.07
6	.117	182.47	6	.636	164.89	6	.032	208.11	6	.173	272.27	6	.057	244.01
7	.195	120.47	7	.548	16.86	7	.179	208.31	7	.088	179.24	7	.152	32.11
8	.194	340.37	8	.113	115.49	8	.095	209.77	8	.079	179.81	8	.113	182.84
9	.177	53.92	9	.186	186.54	9	.048	29.95	9	.078	144.81	9	.081	178.71
10		51.78	10		151.44	10			10		188.14	10	.038	303.60

X=.030  
 SUCTION

N	CP-MAG	PHI
1	13.870	186.25
2	3.448	224.90
3	.642	121.48
4	1.957	273.88
5	1.096	8.32
6	.401	167.12
7	.233	28.02
8	.057	123.72
9	.097	165.62
10		

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 179 ALPHA-MCL = 6.0 PDP RUN.PI 34.06  
 RUN 34 ALPHA-BRA = 2.0 Q-COMP = 32854  
 POINT 6 SIGMA = 135. V-REF = 201.01  
 COMPUTED FREQUENCY = 19.10. K = .1992  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3										7										9									
	4					5					6					7					9									
X=062 SUCTION	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	8.651	180.30	184.07	1	11.917	184.07	1	10.547	183.81	1	6.787	181.09	1	2.298	185.98	1	5.879	182.14	1	3.233	179.25	1	5.879	182.14	1	3.233	179.25	1	5.879	182.14
2	2.234	349.03	279.88	2	4.542	279.88	2	3.113	272.89	2	.090	127.01	2	.129	326.14	2	.147	106.00	2	.066	179.25	2	.147	106.00	2	.066	179.25	2	.147	106.00
3	1.080	773.49	119.02	3	2.701	119.02	3	1.529	89.55	3	.069	177.37	3	.051	31.20	3	.047	179.25	3	.017	179.25	3	.047	179.25	3	.017	179.25	3	.047	179.25
4	.444	159.12	139.29	4	.542	139.29	4	.214	297.43	4	.068	266.37	4	.023	119.10	4	.015	38.02	4	.007	119.10	4	.015	38.02	4	.007	119.10	4	.015	38.02
5	.102	102.91	182.57	5	.318	182.57	5	.052	145.15	5	.044	144.85	5	.039	167.40	5	.032	21.74	5	.007	167.40	5	.032	21.74	5	.007	167.40	5	.032	21.74
6	.086	181.50	242.01	6	.060	242.01	6	.115	288.41	6	.026	180.52	6	.011	176.01	6	.011	38.02	6	.007	176.01	6	.011	38.02	6	.007	176.01	6	.011	38.02
7	.195	294.72	229.73	7	.045	229.73	7	.125	106.00	7	.024	352.47	7	.011	189.01	7	.034	21.74	7	.007	189.01	7	.034	21.74	7	.007	189.01	7	.034	21.74
8	.108	57.15	302.40	8	.077	302.40	8	.105	106.00	8	.024	352.47	8	.011	189.01	8	.034	21.74	8	.007	189.01	8	.034	21.74	8	.007	189.01	8	.034	21.74
9				9			9			9			9			9			9			9			9			9		
10				10			10			10			10			10			10			10			10			10		

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3					W4					W5					W7					W8					W9				
	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI			
1	16	.680	137	1	12	.846	1	5	396	191	57	1	2	5	34	1	2	475	1	2	398	1	2	398	1	2	398			
2	13	.055	315	2	11	.806	2	.411	1428	308	75	2	5	10	25	2	4	163	2	3	114	2	3	114	2	3	114			
3	13	.303	180	3	4	.777	3	.050	128	252	97	3	4	10	25	3	4	153	3	4	.025	3	4	.025	3	4	.025			
4	20	.16	205	4	4	.739	4	.043	505	252	26	4	4	10	25	4	4	128	4	5	.005	4	5	.005	4	5	.005			
5	20	.16	185	5	4	.739	5	.043	505	252	26	5	4	10	25	5	4	128	5	5	.005	5	5	.005	5	5	.005			
6	8	.084	198	6	4	.727	6	.047	472	219	58	6	4	10	25	6	4	128	6	8	.017	6	8	.017	6	8	.017			
7	9	.043	239	7	4	.722	7	.030	438	222	33	7	4	10	25	7	4	128	7	8	.003	7	8	.003	7	8	.003			
8	9	.061	150	8	4	.722	8	.038	438	222	33	8	4	10	25	8	4	128	8	9	.003	8	9	.003	8	9	.003			
9	10	.035	351	9	4	.722	9	.038	438	222	33	9	4	10	25	9	4	128	9	10	.005	9	10	.005	9	10	.005			
10				10			10					10				10			10											

OCWT PERIODICITY TEST  
MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 181 ALPHA-MCL = 6.0 PDP RUN-PT 35.02  
RUN 35 ALPHA-BAR = 2.0 Q-COMP = 32405  
POINT 2 SIGMA = 180. V-REF = 199.61  
COMPUTED FREQUENCY = 9.07, K = .0714

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

X=.005  
SUCTION

N	CPREAL	CPIMAG
1-10	.698	-.261
2	.802	8.691
3	.569	.142
4	.190	.975
5	.639	-.295
6	-.481	-.595
7	-.047	-.076
8	-.270	-.242
9	-.038	.001
10	-.188	-.112

X=.012  
SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	20.074	-1.648	1	21.046	-.638	1	26.495	.808	1	29.605	-2.378
2	1.608	-1.404	2	3.129	1.850	2	4.595	2.077	2	1.102	-4.373
3	1.088	-1.302	3	3.180	1.858	3	4.163	1.171	3	1.170	-4.301
4	.308	1.282	4	-.668	-2.944	4	-.426	-.542	4	-.539	-1.037
5	.379	-.131	5	-1.431	-.271	5	-.555	.070	5	-.581	-.308
6	.017	-.111	6	-.216	-.366	6	-.179	.070	6	-.040	-.102
7	-.220	-.226	7	-1.198	.584	7	-.048	.015	7	-.096	-.026
8	-.260	-.138	8	-.146	.855	8	.320	.354	8	-.155	-.027
9	-.184	-.238	9	-.010	-.000	9	-.015	-.008	9	-.133	-.122
10	-.122	-.028	10	-.274	.361	10	-.183	.115	10	-.096	-.025

X=.030  
SUCTION

N	CPREAL	CPIMAG
1-15	.602	.533
2	.386	-2.219
3	-1.572	1.125
4	-1.443	-2.480
5	.959	-.451
6	-.579	-.726
7	-.662	-.820
8	.186	-.123
9	.161	-.346
10	.195	-.092

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 181 ALPHA-MCL = 6.0 POP RUN-PT 35.02  
 RUN 35 ALPHA-BAR = 2.0 Q-COMP = .32404  
 POINT 2 SIGMA = 180. V-REF = 199.61  
 COMPUTED FREQUENCY = 9.07, K = .0714

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
XE:062						
SUCTION						
1	9.603	1.13.468	1.10.594	1.7.233	6.062	6.234
2	4.42	1.533	2.166	1.109	0.013	1.137
3	2.908	1.874	2.304	0.171	0.139	0.094
4	3.59	1.474	1.453	0.151	0.055	0.028
5	3.20	1.180	1.069	0.069	0.041	0.020
6	0.51	0.653	0.558	0.087	0.020	0.012
7	0.177	0.173	0.180	0.078	0.016	0.005
8	0.163	0.378	0.263	0.007	0.023	0.026
9	0.007	0.095	0.180	0.006	0.013	0.009
10	0.020	0.156	0.006	0.002	0.001	0.012
XE:012						
PRESSURE						
1	6.025	1.15	1.7.818	1.10.950	1.12.834	1.14.886
2	0.127	1.154	0.195	0.068	0.088	0.097
3	0.038	1.245	0.100	0.268	0.385	1.195
4	0.053	0.188	0.005	0.007	0.036	1.242
5	0.080	0.018	0.074	0.027	0.004	0.517
6	0.073	0.048	0.011	0.064	0.009	0.118
7	0.016	0.013	0.013	0.033	0.050	0.279
8	0.027	0.003	0.007	0.019	0.008	0.027
9	0.009	0.010	0.007	0.022	0.030	0.052
10				0.003	0.016	0.064

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.	W3	W4	W5	W7	W8	W9
GAP FRACTION						
1	18.554	9.23	5.429	2.406	2.446	2.313
2	3.28	1.61	1.19	2.263	2.271	2.356
3	0.055	0.650	0.134	0.202	0.241	0.240
4	0.139	0.335	0.059	0.064	0.064	0.060
5	0.320	0.133	0.163	0.095	0.001	0.017
6	0.136	0.025	0.023	0.022	0.111	0.097
7	0.056	0.006	0.005	0.022	0.023	0.008
8	0.033	0.011	0.021	0.006	0.014	0.019
9	0.002	0.044	0.016	0.006	0.001	0.002
10						

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 181 ALPHA-MCL = 6.0 POP RUN-PT 35.02  
 RUN 35 ALPHA-BAR = 2.0 G-COMP = .32404  
 POINT 2 SIGMA = 180. V-REF = 199.61  
 FOURIER COEFFICIENTS, AMPLITUDE COMPUTED FREQUENCY = 9.07, K = .0914  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XE=005  
 SUCTION

N	CP-MAG	PHI
1	10.702	181.40
2	9.122	172.11
3	.587	14.04
4	.994	78.99
5	.704	335.25
6	.765	231.03
7	.082	302.02
8	.362	221.81
9	.032	177.89
10	.212	210.77

XE=012  
 SUCTION

N	CP-MAG	PHI
1	20.141	175.31
2	7.577	177.75
3	3.721	159.52
4	1.316	176.57
5	.402	160.90
6	.116	314.23
7	.294	208.06
8	.301	307.99
9	.125	192.74
10		

XE=030  
 SUCTION

N	CP-MAG	PHI
1	15.611	178.04
2	2.233	279.87
3	1.933	144.40
4	2.869	239.81
5	1.059	334.82
6	1.929	231.42
7	1.054	308.91
8	.223	331.57
9	.381	294.93
10	.215	25.18

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N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	29.697	178.25	1	26.507	178.25	1	21.056	178.26	1	16.941	175.31
2	4.130	173.73	2	4.122	173.73	2	1.682	178.72	2	7.577	177.75
3	1.169	164.28	3	1.130	164.28	3	3.070	164.95	3	3.721	159.52
4	1.169	157.83	4	1.130	157.83	4	1.456	153.58	4	1.316	176.57
5	1.169	151.10	5	1.130	151.10	5	1.456	142.68	5	.402	160.90
6	1.169	145.45	6	1.130	145.45	6	1.456	140.75	6	.116	314.23
7	1.169	139.82	7	1.130	139.82	7	1.456	131.47	7	.294	208.06
8	1.169	134.19	8	1.130	134.19	8	1.456	129.00	8	.301	307.99
9	1.169	128.56	9	1.130	128.56	9	1.456	121.41	9	.125	192.74
10	1.169	122.93	10	1.130	122.93	10	1.456	113.82	10		

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	21.388	175.57	1	20.697	175.57	1	16.941	178.04	1	15.611	178.04
2	2.847	173.73	2	2.847	173.73	2	7.577	279.87	2	2.233	279.87
3	.503	164.28	3	.503	164.28	3	3.721	144.40	3	1.933	144.40
4	.503	157.83	4	.503	157.83	4	1.316	239.81	4	2.869	239.81
5	.503	151.10	5	.503	151.10	5	.402	334.82	5	1.059	334.82
6	.503	145.45	6	.503	145.45	6	.116	231.42	6	1.929	231.42
7	.503	139.82	7	.503	139.82	7	.294	308.91	7	1.054	308.91
8	.503	134.19	8	.503	134.19	8	.301	331.57	8	.223	331.57
9	.503	128.56	9	.503	128.56	9	.125	294.93	9	.381	294.93
10	.503	122.93	10	.503	122.93	10		25.18	10	.215	25.18

# MODE 2 -- LEADING EDGE PLANE DATA, ALL STATIONS

FILE 181 ALPHA-MCL = 6.0 POP RUN.PT 35.02  
 RUN 35 ALPHA-BAR = 2.0 Q-COMP = 32404  
 POINT 2 SIGMA = 180. V-REF = 199.61  
 2 COMPUTED FREQUENCY = 9.07, K = .0714  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=.062 SECTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	9.653 174.13	13.482 177.33	10.603 177.70	7.233 179.75	4.087 175.46	6.255 175.30
2	2.033 257.45	1.181 262.67	2.521 266.22	3.182 273.21	.422 280.21	.416 280.21
3	1.151 339.00	1.502 350.88	1.571 350.55	.380 350.55	.130 350.55	.097 340.18
4	1.228 61.98	1.502 199.44	1.571 172.93	.380 172.93	.130 172.93	.097 172.93
5	1.406 141.66	1.502 321.47	1.571 315.25	.380 315.25	.130 315.25	.097 315.25
6	.071 315.04	1.081 37.14	.218 126.42	.259 254.60	.117 350.22	.093 350.22
7	.266 131.52	1.211 144.99	.302 126.42	.150 230.41	.056 64.18	.043 64.18
8	.174 200.36	.401 21.70	.372 126.42	.090 47.74	.013 238.65	.027 238.65
9	.087 274.66	.101 103.66	.242 98.34	.010 233.35	.003 238.65	.003 238.65
10	.049 245.41	.157 174.30	.043 98.34	.010 233.35	.003 238.65	.003 238.65
X=.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	8.026 359.18	7.818 358.08	10.956 358.08	12.934 352.89	14.919 356.20	14.919 356.20
2	1.161 287.39	1.385 278.11	1.599 272.44	.927 272.44	.693 267.00	.693 267.00
3	.192 101.50	.235 91.43	.269 88.25	.193 88.25	.122 76.93	.122 76.93
4	.055 198.38	.075 210.44	.084 227.16	.071 227.16	.056 330.13	.056 330.13
5	.093 329.23	.105 314.85	.081 327.39	.057 327.39	.033 330.13	.033 330.13
6	.022 325.84	.029 322.00	.064 337.85	.066 337.85	.033 330.13	.033 330.13
7	.027 174.55	.013 113.55	.038 138.95	.042 138.95	.012 332.55	.012 332.55
8	.013 228.69	.007 197.32	.030 222.91	.034 222.91	.012 332.55	.012 332.55
9						
10						

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 .062	W4 .125	W5 .250	W7 .750	W8 .875	W9 .938
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	18.576 177.15	13.836 178.61	5.475 187.49	2.418 185.66	2.457 185.31	2.320 187.49
2	2.577 262.69	1.481 267.04	.269 269.16	.459 255.02	.508 257.61	.320 262.69
3	.616 108.88	.358 169.46	.191 156.16	.237 148.02	.286 147.44	.201 148.02
4	.336 162.18	.155 245.77	.086 136.77	.155 110.71	.169 112.30	.120 112.30
5	.104 345.23	.032 294.64	.166 300.15	.025 312.84	.057 308.77	.035 312.84
6	.136 177.49	.032 25.11	.046 100.15	.022 55.39	.061 263.65	.035 263.65
7	.068 32.73	.076 74.34	.030 110.81	.038 297.76	.034 326.77	.035 297.76
8	.035 161.48	.096	.022	.017 292.76	.015 297.76	.035 297.76
9	.044 272.55		.018			.035 297.76
10						



MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 183 ALPHA-MCL = 6.0 PDP RUN.PT 35.04  
 RUN 35 ALPHA-MCL = 2.0 Q-COMP = 32300  
 POINT 4 SIGMA = 180. V-REF = 199.29  
 COMPUTED FREQUENCY = 15.38, M = .1213

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

XZ:005  
 SUCTION

N	CPREAL	CPIMAG
1	11.661	.384
2	4.334	8.148
3	.350	.042
4	.462	.758
5	.283	-.370
6	.595	-.077
7	-.033	-.085
8	-.375	-.058
9	.044	-.045
10	-.138	-.010

XZ:012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	20.010	-.476	1	17.793	.647	1	21.033	1.922	1	29.455	-2.357
2	1.429	7.688	2	3.915	2.247	2	1.475	1.791	2	.647	-3.376
3	3.429	-.928	3	1.057	2.291	3	3.034	1.424	3	.032	-.913
4	-.119	1.178	4	1.870	1.443	4	-1.156	-.680	4	-.489	-.220
5	.140	-.133	5	.739	1.371	5	-1.371	.353	5	-.506	.156
6	-.291	.183	6	.271	1.353	6	-.742	.016	6	-.156	.059
7	-.188	.183	7	.370	.032	7	.619	.144	7	.069	-.058
8	-.130	-.004	8	.026	.122	8	.301	.030	8	-.137	-.024
9	-.181	-.015	9	.030	.092	9	.092	.058	9	-.090	-.052
10	-.066	-.015	10	.130	.030	10	.092	.024	10	-.033	-.047

XZ:030  
 SUCTION

N	CPREAL	CPIMAG
1	16.005	1.259
2	.759	-2.374
3	-.974	1.231
4	-1.889	-1.983
5	.780	-.643
6	-.546	-.167
7	.148	-.628
8	.156	-.001
9	.037	-.190
10	.127	-.011

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183 ALPHA-MCL = 6.0 POP RUN,PT = 35.04
35 ALPHA-BAR = 2.0 O-COMP = 32300
4 SIGMA = 180. V-REF = 199.29
POINT COMPUTED FREQUENCY = 15.38, K = .1213

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FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*  
COMPUTE

**BLADE NO.**

X-062  
SUCTION

1		4		5		6		7		9	
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	9.156	-1.544	1	-13.876	1.302	1	11.115	-2.264	1	7.926	6.074
2	321	1.506	2	-8.807	-4.037	2	-2.137	-2.585	2	226	208
3	2.003	1.086	3	-2.443	-0.736	3	-2.526	1.707	3	389	049
4	319	1.269	4	561	1.157	4	491	1.466	4	069	035
5	036	0.12	5	638	-1.033	5	-0.01	-0.164	5	041	001
6	196	-0.08	6	157	344	6	187	-0.18	6	001	036
7	211	-0.035	7	-206	235	7	-0.01	-0.207	7	046	027
8	020	0.135	8	016	-0.206	8	-2.125	-0.213	8	0012	004
9	074	-0.051	9	-101	0.223	9	031	0.015	9	007	002
10			10		0.009	10		-0.005	10		
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-8.406	-252	1	-8.640	0.67	1	10.822	-0.435	1	-12.808	2.239
2	135	-1.081	2	-0.191	-1.406	2	-0.338	-1.052	2	798	332
3	083	0.007	3	122	0.077	3	-0.263	0.440	3	216	518
4	093	0.030	4	002	0.099	4	0.019	0.147	4	022	1.562
5	036	0.082	5	025	0.523	5	-0.022	-0.17	5	005	340
6	057	0.041	6	-0.04	-0.028	6	-0.023	-0.017	6	005	008
7	003	-0.099	7	-0.003	-0.028	7	-0.023	-0.009	7	012	005
8	045	-0.039	8	003	0.021	8	-0.005	-0.019	8	004	025
9	005	-0.009	9	-0.001	-0.01	9	0.005	-0.019	9	004	007
10			10		0.001	10		-0.005	10		
N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. 3  
GAP FRACTION .062

	W3 .062			W4 .125			W5 .250			W7 .750			W8 .875			W9 .938		
	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	18	.098	1.697	1	13	.699	1	5	.648	1	2	.706	1	2	.741	1	2	.602
2	18	.281	-1.137	2	13	.071	2	5	.146	2	3	.386	2	3	.312	2	3	.306
3	18	.144	.079	3	13	.741	3	5	.050	3	3	-.032	3	4	.105	3	4	.110
4	18	.095	.055	4	13	.019	4	5	.072	4	3	.032	4	5	.028	4	5	.011
5	18	.058	.030	5	13	.003	5	5	.020	5	3	.010	5	6	.002	5	6	.010
6	18	.058	.010	6	13	.034	6	5	.020	6	3	.003	6	7	.002	6	7	.007
7	18	.058	.000	7	13	.016	7	5	.033	7	3	.003	7	8	.006	7	8	.013
8	18	.037	.000	8	13	.046	8	5	.031	8	3	.001	8	9	.006	8	9	.006
9	18	.009	.003	9	13	.021	9	5	.027	9	3	.005	9	10	.009	9	10	.006
10	18	.003	.028	10	13	.021	10	5	.027	10	3	.005	10			10		.009

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 183 ALPHA-MCL = 6.0 PDP RUN.PT 35.04  
 RUN 35 ALPHA-BAR = 2.0 O-COMP = .32300  
 POINT 4 SIGMA = 180. V-REF = 199.29  
 COMPUTED FREQUENCY = 15.38, K = .1213

FOURIER COEFFICIENTS, AMPLITUDE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3

XZ-005  
 SUCTION

N	CP-MAG	PHI
1	11.668	178.12
2	9.137	63.10
3	.352	6.90
4	.988	58.61
5	.465	307.40
6	.560	187.94
7	.091	249.01
8	.380	188.85
9	.063	313.20
10	.138	184.06

XZ-012  
 SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	20.015	178.54	1	17.805	177.92	1	21.033	179.97	1	26.948	175.91
2	7.820	179.47	2	8.099	63.49	2	2.522	54.20	2	1.968	65.49
3	3.555	164.71	3	4.053	145.58	3	2.288	157.29	3	1.878	158.46
4	1.184	195.79	4	1.788	145.78	4	2.971	247.10	4	.845	233.62
5	.193	136.41	5	1.623	122.40	5	1.443	341.76	5	.638	146.78
6	.294	171.11	6	.819	135.33	6	.376	188.93	6	.195	10.78
7	.263	315.85	7	.387	134.36	7	.906	324.07	7	.251	145.04
8	.184	225.04	8	.371	5.01	8	.688	64.07	8	.251	8.85
9	.101	359.67	9	.125	257.83	9	.106	147.30	9	.080	134.20
10	.067	192.83	10	.134	13.19	10	.205	63.21	10	.070	119.75

XZ-030  
 SUCTION

N	CP-MAG	PHI
1	16.055	175.50
2	2.401	278.59
3	1.569	128.36
4	2.733	226.39
5	1.571	320.48
6	.645	320.06
7	.156	283.23
8	.193	359.83
9	.128	281.30
10		5.00

# MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 183 ALPHA-MCL = 6.0 POP RUN-PT 35.04  
 RUN 35 ALPHA-BAR = 2.0 Q-COMP = 33300  
 POINT 4 SIGMA = 180. V-REF = 199.29  
 COMPUTED FREQUENCY = 15.38, K = .1213

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	4	5	6	7	9
X=.062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	9.172 176.60	11.118 178.64	7.348 176.64	7.988 176.81	6.093 175.97
2	1.637 258.70	4.117 258.69	7.24 267.00	7.741 267.00	5.87 269.20
3	2.142 339.24	2.266 341.05	1.139 349.29	1.089 349.29	1.053 349.29
4	1.224 62.52	1.433 158.73	1.188 65.26	1.01 75.71	1.087 60.21
5	1.417 139.85	1.175 298.43	1.212 137.91	1.072 344.94	1.049 43.95
6	0.37 161.98	1.943 21.37	1.40 227.62	1.05 88.55	1.042 165.96
7	0.286 133.23	2.88 125.50	1.55 320.93	1.05 158.57	1.042 165.96
8	0.220 196.53	2.31 332.79	1.55 320.93	1.05 158.57	1.042 165.96
9	0.158 277.25	2.36 71.14	1.55 320.93	1.05 158.57	1.042 165.96
10	0.090 325.60	1.01 175.01	1.55 320.93	1.05 158.57	1.042 165.96
X=.012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	8.410 1.72	8.641 359.56	10.831 357.70	13.003 350.08	15.715 358.10
2	1.105 281.77	1.409 289.24	1.441 268.90	1.498 275.47	1.594 275.47
3	1.133 335.65	1.151 37.02	1.268 36.17	1.278 36.17	1.278 36.17
4	1.160 234.39	1.052 37.97	1.177 324.35	1.168 324.35	1.168 324.35
5	1.040 26.29	0.42 307.02	0.23 166.81	0.116 280.92	0.116 280.92
6	0.066 330.07	0.30 277.49	0.054 166.81	0.08 315.85	0.120 325.60
7	0.041 266.07	0.28 278.07	0.030 199.98	0.091 282.04	0.120 325.60
8	0.026 160.68	0.14 187.33	0.025 155.74	0.057 213.93	0.098 225.55
9	0.011 300.20	0.011 256.42	0.020 285.76	0.022 292.93	0.048 352.00

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 CP-MAG PHI	W4 CP-MAG PHI	W5 CP-MAG PHI	W7 CP-MAG PHI	W9 CP-MAG PHI
1	18.177 174.64	13.720 176.19	5.708 188.34	2.706 179.67	2.692 179.67
2	1.156 262.83	1.700 269.30	1.525 188.34	1.706 161.58	1.706 161.58
3	1.184 262.83	1.742 277.19	1.525 188.34	1.706 161.58	1.706 161.58
4	1.184 262.83	1.742 277.19	1.525 188.34	1.706 161.58	1.706 161.58
5	1.184 262.83	1.742 277.19	1.525 188.34	1.706 161.58	1.706 161.58
6	1.184 262.83	1.742 277.19	1.525 188.34	1.706 161.58	1.706 161.58
7	1.184 262.83	1.742 277.19	1.525 188.34	1.706 161.58	1.706 161.58
8	1.184 262.83	1.742 277.19	1.525 188.34	1.706 161.58	1.706 161.58
9	1.184 262.83	1.742 277.19	1.525 188.34	1.706 161.58	1.706 161.58
10	1.184 262.83	1.742 277.19	1.525 188.34	1.706 161.58	1.706 161.58

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 185 ALPHA-MCL = 6.0 PDP RUN.PT 33.06  
 RUN 35 ALPHA-BAR = 2.0 O-COMP = .32219  
 POINT 6 SIGMA = 180. V-REF = 199.03  
 COMPUTED FREQUENCY = 18.97,  $\kappa = .1497$

FOURIER COEFFICIENTS, REAL & IMAGINARY  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

XZ=005  
 SUCTION

9

7

6

5

4

3

N	CPREAL	CPIMAG
1	11.841	.302
2	4.474	7.419
3	.420	-.012
4	.483	.588
5	.167	-.496
6	-.530	.090
7	-.046	-.072
8	-.292	.032
9	.000	.013
10	-.105	-.001

XZ=012  
 SUCTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	19.230	.102	1	20.757	-.273	1	26.756	1.980	1	21.212	-2.716
2	1.257	-.585	2	1.792	-2.060	2	3.794	1.743	2	3.562	-3.262
3	3.258	-.755	3	3.353	-1.549	3	3.436	1.623	3	3.377	-3.171
4	1.143	1.220	4	-1.283	-2.438	4	-.377	-.526	4	-.274	-.372
5	-.089	1.209	5	-.956	-2.435	5	-.377	-.185	5	-.043	-.190
6	-.233	-.141	6	-.450	-.334	6	-.173	1.65	6	-.023	-.024
7	-.135	-.054	7	-.591	-.302	7	-.207	.078	7	-.049	-.060
8	.161	-.193	8	.300	.306	8	-.048	.084	8	.115	.021
9	.002	.038	9	.007	.066	9	-.067	-.044	9	.019	.058
10	.181	.043	10	.159	.238	10	.009	-.004	10	.094	.028

XZ=030  
 SUCTION

N	CPREAL	CPIMAG
1	15.060	1.428
2	.038	-2.752
3	-.664	1.379
4	-2.082	-1.519
5	.607	-.818
6	-.457	.081
7	-.027	-.502
8	-.079	-.142
9	-.068	-.021
10	.062	-.021

# OCMT PERIODICITY TEST MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 155 ALPHA-MCL = 6.0 POP SUM-PT 35206  
RUN 35 ALPHA-BAR = 2.0 Q-COMP = .32219  
POINT 6 ALPHA SIGMA = 180. V-REF = 199.03  
COMPUTED FREQUENCY = 18.97, K = .1497

FOURIER COEFFICIENTS, REAL & IMAGINARY  
\*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.

X=062  
SUCTION

1 2 3 4 5 6 7 8 9 10

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	10.043	-2.564	1	14.005	1.402	1	11.026	-3.615	1	7.485	2.69	1	12.020	0.020	1	6.100	-.795
2	-.520	-2.775	2	-1.346	-4.367	2	-2.505	1.892	2	-.169	-.282	2	-.119	-.119	2	-.022	-.110
3	-2.302	.320	3	-.327	-.197	3	.411	1.173	3	.164	-.081	3	-.039	-.039	3	.010	.011
4	.320	.138	4	.716	-1.031	4	-.245	-.021	4	-.036	-.112	4	-.059	-.059	4	.010	.021
5	.167	.286	5	.111	-.215	5	-.203	-.053	5	-.096	-.026	5	-.035	-.035	5	.019	-.052
6	.286	.167	6	.237	-.028	6	.240	-.282	6	-.021	-.002	6	-.032	-.032	6	.015	-.007
7	-.044	-.008	7	-.132	-.106	7	-.141	-.084	7	-.021	-.002	7	-.022	-.022	7	.015	-.007
8	.008	.071	8	-.054	-.106	8	-.053	-.178	8	-.022	-.002	8	-.022	-.022	8	.015	-.007
9	.071	.008	9	-.105	-.017	9	.020	-.045	9	-.022	-.002	9	-.022	-.022	9	.015	-.007
10	.008	.071	10	-.105	-.017	10	.020	-.045	10	-.022	-.002	10	-.022	-.022	10	.015	-.007

X=012  
PRESSURE

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-8.692	-.743	1	-8.773	-.092	1	10.771	-.828	1	12.020	0.020	1	15.013	-.813	1	15.013	-.813
2	-.063	-1.600	2	-.420	1.790	2	-.377	1.863	2	-.055	-.104	2	-.055	-.104	2	-.055	-.104
3	.107	.107	3	.060	-.058	3	-.005	-.046	3	-.055	-.104	3	-.055	-.104	3	-.055	-.104
4	.107	.107	4	.060	-.058	4	-.005	-.046	4	-.055	-.104	4	-.055	-.104	4	-.055	-.104
5	.026	.026	5	.023	-.053	5	.014	-.005	5	-.055	-.104	5	-.055	-.104	5	-.055	-.104
6	.094	.031	6	-.038	.011	6	.034	-.005	6	-.055	-.104	6	-.055	-.104	6	-.055	-.104
7	-.070	.007	7	-.032	-.001	7	.034	-.005	7	-.055	-.104	7	-.055	-.104	7	-.055	-.104
8	-.047	-.016	8	-.036	-.012	8	.034	-.005	8	-.055	-.104	8	-.055	-.104	8	-.055	-.104
9	-.047	-.016	9	-.036	-.012	9	.034	-.005	9	-.055	-.104	9	-.055	-.104	9	-.055	-.104
10	-.064	-.055	10	-.037	-.012	10	.034	-.005	10	-.055	-.104	10	-.055	-.104	10	-.055	-.104

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO.  
GAP FRACTION

N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG	N	CPREAL	CPIMAG
1	-18.252	1.501	1	-13.688	.702	1	-5.697	-1.026	1	2.815	-.380	1	2.815	-.380	1	2.815	-.380
2	-.618	.164	2	-.383	-1.392	2	-.071	1.027	2	-.028	-.057	2	-.028	-.057	2	-.028	-.057
3	.164	.105	3	-.018	-.472	3	.004	.057	3	-.017	-.022	3	-.017	-.022	3	-.017	-.022
4	.105	.405	4	-.027	-.719	4	.006	.050	4	-.021	-.031	4	-.021	-.031	4	-.021	-.031
5	.405	.093	5	-.019	-.055	5	.006	.050	5	-.021	-.031	5	-.021	-.031	5	-.021	-.031
6	.093	.155	6	-.019	-.055	6	.006	.050	6	-.021	-.031	6	-.021	-.031	6	-.021	-.031
7	.155	.053	7	-.010	-.023	7	.006	.050	7	-.021	-.031	7	-.021	-.031	7	-.021	-.031
8	.053	.020	8	-.049	-.008	8	.006	.050	8	-.021	-.031	8	-.021	-.031	8	-.021	-.031
9	.020	-.054	9	-.049	-.008	9	.006	.050	9	-.021	-.031	9	-.021	-.031	9	-.021	-.031
10	-.054	-.054	10	-.035	-.008	10	.006	.050	10	-.021	-.031	10	-.021	-.031	10	-.021	-.031

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 185 ALPHA-MCL = 6.0 POP RUNPT 35.06  
 RUN 35 ALPHA-BAR = 2.0 O-COMP = .32219  
 POINT 6 SIGMA = 180. V-REF = 199.03  
 COMPUTED FREQUENCY = 18.97. K = .1497

FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO. 3 4 5 6 7 9

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	11.845	178.54	1	11.845	178.54	1	11.845	178.54	1	11.845	178.54
2	8.664	58.91	2	8.664	58.91	2	8.664	58.91	2	8.664	58.91
3	4.220	50.59	3	4.220	50.59	3	4.220	50.59	3	4.220	50.59
4	7.611	288.64	4	7.611	288.64	4	7.611	288.64	4	7.611	288.64
5	5.233	170.40	5	5.233	170.40	5	5.233	170.40	5	5.233	170.40
6	5.385	237.69	6	5.385	237.69	6	5.385	237.69	6	5.385	237.69
7	0.883	173.83	7	0.883	173.83	7	0.883	173.83	7	0.883	173.83
8	2.933	89.87	8	2.933	89.87	8	2.933	89.87	8	2.933	89.87
9	0.13	180.63	9	0.13	180.63	9	0.13	180.63	9	0.13	180.63
10	0.105	180.63	10	0.105	180.63	10	0.105	180.63	10	0.105	180.63

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	17.981	177.77	1	17.981	177.77	1	17.981	177.77	1	17.981	177.77
2	17.671	158.51	2	17.671	158.51	2	17.671	158.51	2	17.671	158.51
3	3.893	141.08	3	3.893	141.08	3	3.893	141.08	3	3.893	141.08
4	1.660	111.79	4	1.660	111.79	4	1.660	111.79	4	1.660	111.79
5	1.207	119.76	5	1.207	119.76	5	1.207	119.76	5	1.207	119.76
6	0.612	134.69	6	0.612	134.69	6	0.612	134.69	6	0.612	134.69
7	0.252	229.82	7	0.252	229.82	7	0.252	229.82	7	0.252	229.82
8	0.222	11.05	8	0.222	11.05	8	0.222	11.05	8	0.222	11.05
9	0.110	0.67	9	0.110	0.67	9	0.110	0.67	9	0.110	0.67
10	0.067	11.05	10	0.067	11.05	10	0.067	11.05	10	0.067	11.05

X=012  
SUCTION

X=030  
SUCTION

N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI	N	CP-MAG	PHI
1	16.124	179.92	1	16.124	179.92	1	16.124	179.92	1	16.124	179.92
2	12.753	170.80	2	12.753	170.80	2	12.753	170.80	2	12.753	170.80
3	1.531	115.69	3	1.531	115.69	3	1.531	115.69	3	1.531	115.69
4	2.577	216.56	4	2.577	216.56	4	2.577	216.56	4	2.577	216.56
5	1.019	306.97	5	1.019	306.97	5	1.019	306.97	5	1.019	306.97
6	0.465	169.97	6	0.465	169.97	6	0.465	169.97	6	0.465	169.97
7	0.503	266.98	7	0.503	266.98	7	0.503	266.98	7	0.503	266.98
8	0.081	14.30	8	0.081	14.30	8	0.081	14.30	8	0.081	14.30
9	0.157	241.60	9	0.157	241.60	9	0.157	241.60	9	0.157	241.60
10	0.065	341.60	10	0.065	341.60	10	0.065	341.60	10	0.065	341.60

MODE 2 -- LEADING EDGE PLANE DATA, WALL STATIONS

FILE 185 ALPHA-MCL = 6.0 POP RUN-PT 35.06  
 RUN 35 ALPHA-BAR = 2.0 G-COMP = 32219  
 POINT 6 SIGMA = 180. V-REF = 199.03  
 COMPUTED FREQUENCY = 19.97, K = .1497  
 FOURIER COEFFICIENTS, AMPLITUDE & UNBIASED PHASE ANGLE  
 \*\*\* BLADE PRESSURES, PER RADIAN \*\*\*

BLADE NO.	3	4	5	6	7	9
X=062 SUCTION	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	10.058 176.72	14.075 174.28	11.642 176.97	7.490 177.94	4.063 174.12	6.152 172.57
2	2.648 258.68	4.570 252.87	3.302 261.96	2.282 261.41	2.282 261.41	1.156 259.24
3	2.429 341.39	2.324 335.16	2.659 340.49	1.82 337.89	0.059 338.11	0.027 339.16
4	1.041 172.07	1.382 148.91	1.243 170.69	1.82 172.15	0.058 170.05	0.053 171.24
5	1.091 136.64	1.077 216.78	2.260 172.15	1.22 195.15	0.058 195.15	0.021 190.87
6	2.01 33.51	1.748 176.68	1.39 172.15	0.99 269.74	0.041 269.74	0.021 330.27
7	1.772 140.36	2.64 120.04	2.27 133.49	0.60 164.37	0.027 164.37	0.030 350.69
8	1.185 256.09	0.46 116.90	1.00 302.35	0.21 211.08	0.026 211.08	0.034 320.60
9	0.088 264.61	0.119 189.01	0.106 189.01	0.026 211.08	0.058 211.08	0.012 332.60
10	0.101 45.47	0.106 189.01	0.049 65.40	0.026 211.08	0.058 211.08	0.012 332.60
X=012 PRESSURE	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	8.724 4.88	8.774 256.80	1.638 256.80	10.803 355.61	13.046 349.46	15.893 354.13
2	1.601 267.76	1.638 256.80	1.638 256.80	1.892 259.84	1.117 291.32	3.450 250.58
3	2.27 178.52	1.083 315.90	1.083 315.90	2.13 145.91	2.37 193.86	1.583 191.92
4	1.13 198.88	0.069 157.53	0.069 157.53	0.47 215.10	0.179 227.12	0.15 207.17
5	0.067 166.79	0.058 166.18	0.058 166.18	0.15 340.17	0.076 298.51	0.139 313.07
6	0.099 342.05	0.040 182.00	0.040 182.00	0.18 333.51	0.048 326.10	0.127 311.66
7	0.070 174.42	0.032 182.00	0.032 182.00	0.34 8.34	0.057 170.89	0.121 192.91
8	0.050 174.42	0.032 182.00	0.032 182.00	0.043 79.20	0.051 200.35	0.102 192.88
9	0.084 220.49	0.039 198.72	0.039 198.72	0.043 79.20	0.051 200.35	0.102 192.88
10	0.084 220.49	0.039 198.72	0.039 198.72	0.043 79.20	0.051 200.35	0.102 192.88

\*\*\* WALL PRESSURES, PER RADIAN \*\*\*

WALL NO. GAP FRACTION	W3 062	W4 125	W5 250	W7 750	W8 875	W9 918
N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI	N CP-MAG PHI
1	2.319 175.11	13.706 177.07	5.824 194.17	2.841 187.69	2.879 188.36	2.795 187.67
2	2.603 256.26	1.444 259.63	1.255 304.90	0.065 119.38	0.119 110.09	0.157 109.07
3	1.198 31.97	0.809 174.16	0.075 130.61	0.092 107.88	0.119 110.09	0.137 109.07
4	0.406 84.96	0.472 267.79	0.016 175.82	0.017 187.60	0.014 187.60	0.014 187.60
5	0.192 151.09	0.087 108.85	0.024 16.31	0.043 62.36	0.042 62.36	0.040 62.36
6	0.156 182.84	0.057 121.08	0.027 316.10	0.021 176.37	0.021 176.37	0.021 176.37
7	0.051 203.32	0.036 114.42	0.044 298.41	0.011 176.37	0.011 176.37	0.011 176.37
8	0.051 203.32	0.036 114.42	0.044 298.41	0.011 176.37	0.011 176.37	0.011 176.37
9	0.074 227.04	0.036 167.13	0.077 162.82	0.007 123.22	0.013 123.22	0.009 201.24
10	0.074 227.04	0.036 167.13	0.077 162.82	0.007 123.22	0.013 123.22	0.013 118.84

RESUME,PH